

Service Manual

Compact Disc Hi-Fi Stereo System

DC - X900 (GERMANY)



Specifications

PRODUCT CODE No. 129 353 03

Note:

The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

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Frequency range FM : 87.5 - 108 MHz MW : 522 - 1,611 kHz LW : 144 - 290 kHz

Amplifier

Output power Max. 25W × 2 (at 8 ohms, 10% distortion)

Input sensitivity /

impedance PHONO: 5mV/47k ohms

VIDEO: 280mV/47k ohms

Output impedance SPEAKERS : 8 ohms

HEADPHONES: 8 ohms

Cassette decks

Track system AC bias, 4-track stereo

Frequency response Chrome tapes : 40 - 15,000 Hz
Normal tapes : 40 - 13,000 Hz

Signal to noise ratio 58 dB(with DOLBY NR: ON)

Wow and flutter 0.12% (WRMS)

Fast forward/

rewind time Approx. 120 sec. (C-60)

CD player

Channels 2-channel stereo

Sampling frequency 44.1 kHz

D/A conversion 16-bit linear twin D/A converter

Pick-up Optical 3-beam semiconductor laser

Frequency response 20 - 20,000 Hz

Signal to noise ratio 85 dB Channel separation 90 dB (1 kHz)

Distortion 0.12% (1 kHz)

Wow and flutter Undetectable

General

Power requirements AC: 230V, 50HZ

Power consumption 90W

Dimensions(approx.) $360 (W) \times 328 (H) \times 390 (D) mm$

Weight(approx.) 7.2 kg

RB-X900 remote controller

Power source DC: 3 V

"R6/AA/SUM-3" battery, × 2

Dimensions(approx.) 63 (W) \times 18 (H) \times 175 (D) mm

Weight(approx.) 90 g without batteries

Note:

The POWER switch is mounted on the secondary side. The unit is not disconnected from AC-power, even when switched off.

Laboratories Licensing Corporation. "DOLBY" and the double-D symbol [1] are trademarks of Dolby Laboratories Licensing Corporation.

Dolby noise reduction manufactured under license from Dolby

Specification subject to change without notice.

REFERENCE No. WM-580618

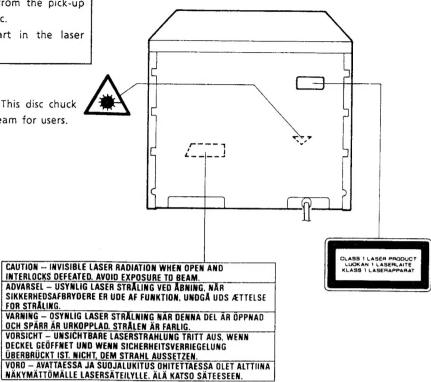
LASER BEAM SAFETY PRECAUTIONS

Do not look directly at the laser beam coming from the pick-up or allow it to strike against your fingers, skin, etc.

Do not apply power if there is a broken part in the laser output section of the pick-up.

Structural Safety Interlock

This model has a disc chuck lever and top lid. This disc chuck lever and top lid prevent to expose the laser beam for users.



INVISIBLE LASER RADIATION EXPOSURE TO BEAM IS DANGEROUS CLASS 1 LASER PRODUCT
OUTPUT POWER: 0.6 mW MAX WAVELENGTH: 790 nm

HANDLING THE PICK-UP-

1. Shipping and storage cautions

- a. The pick-up must be stored in a conductive bag until immediately prior to its use.
- b. Do not drop it or subject it to impacts.

2. Repair cautions

- a. When handling the pick-up, be careful not to give it undue force or shock by your hands. Otherwise the pick-up may malfunction or the PCB may be cracked.
- b. The pick-up which has been minutely adjusted before shipment as one part. Never touch and move the adjusting points and setscrews of the pick-up unless otherwise described in the item of adjustment to avoid damage.

BEFORE REPAIRING THE CD PLAYER

Preparations

- a. Many ICs, LSI and the Pick-up (laser diode) are used in the compact disc player. These components are sensitive to static electricity, and might be damaged by static electricity or high voltage, so particular care should be taken regarding this point.
- Many precision components and the lens are used in the pick-up.

Never attempt to make repairs, or to store parts, where the temperature or humidity is high, where magnetism is strong, or where there is much dust.

c. A strong magnet is used in the pick-up.
 Do not bring a magnet or other magnetized object near to it.

3. Cleaning the lens

- *If dust gets on the lens, clean it away by using an air brush such as used for a camera lens.
- * The lens is held in place by a spring.

 If the center of the lens is dirty, carefully clean it using cotton swab moistened with isopropylalcohol. Since special coating is made on the surface of the lens which is made of plastics, do not use other kind of alcohol and cleaning fluid to prevent damage to the lens. Also, be careful not to bend the lens spring

2. Notes regarding repairs

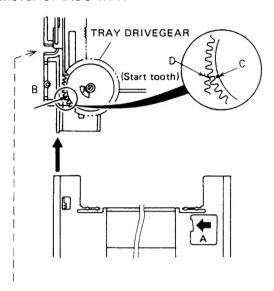
when cleaning.

- a. Be sure to first disconnect the power plug before attempting to replace any component.
- b. All tools, instruments, etc., used for measuring must be grounded.
 - Grounding can be accomplished by using conductive metal sheet on the work bench.
- c. To prevent AV leakage of the soldering iron, ground its metal part.
- d. Repair personnel must be grounded.

DISASSEMBLY (CD MECHANISM)-

1. Removal of DISC TRAY

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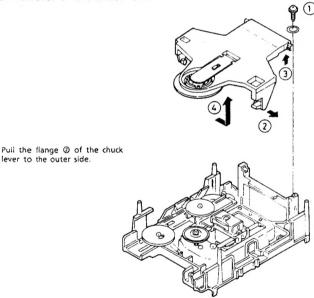
- a. Drive the mechanism to open end. OPEN / CLOSE Switch: Push ON
- b. Pull the TRAY off the mechanism. (Push the A rib of the TRAY to the direction of arrow and free from chassis rib.)
- c. Turn the PICK-UP drive gear (under chucking lever) slowly manual forward clockwise and move the slide to the front end.
- d. Match the guide groove of TRAY to the chassis guide and insert to the direction of arrow.
- e. Insert the TRAY to the mechanism after to match the C (tooth bottom) to the D (starting tooth) of TRAY rack. Then complete the close motion by OPEN/CLOSE Switch: Push ON.

Note: Never turn the TRAY drive gear by hand directly in the all mechanism adjustment so that you will wound the teeth of the TRAY drive gear.

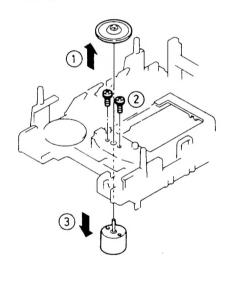
(If the left slide obstructs the special screw, turn the PICK-UP drive gear a little.)

2. Removal of CD Mechanism

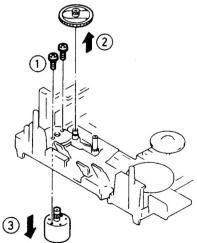
a. Removal of the chuck lever



c. Removal of the spindle motor



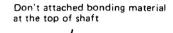
b. Removal of the sled motor

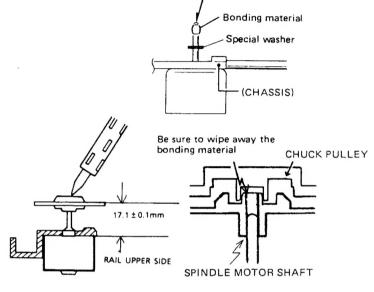


- First, prepare the new turn-table and new special washer for replacement. And prepare dial-type calipers.
 The removed turn-table will be deformed by the heat of the soldering iron, and cannot be reused.
- a. The attached bonding material can be dissolved by using a 60W soldering iron to heat the shaft at the lower part of the turn-table for about one minute.
- b. The turn-table can then be removed from the shaft by very carefully applying force upward at the center of the lower surface of the turn-table.
- c. Remove the two screw and remove the spindle motor.
- d. Attach the special washer to the spindle motor.
- e. Apply a small amount of a mixture(50:50) of the "Three Bond 2001" and "2105F" bonding materials to the motor's shaft.

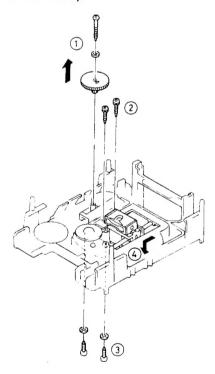
DISASSEMBLY (CD MECHANISM)

- f. Install the turn-table as shown in the figure.
- g. Secure the turn-table by pressing gently. Be sure to wipe away (by using a piece of cloth, or similar material) any bonding material coming out of the hole.



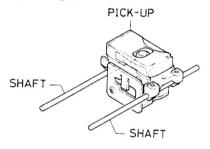


d. Removal of the Pick-up



e. Replacement and lubrication of the Pick-up

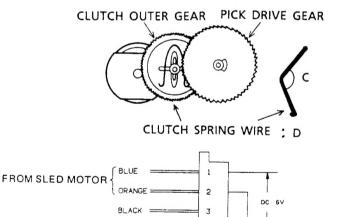
- a. Before replacement of the pick-up, be sure to carefully read the section regarding the pick-up when the unit is moved or transported.
- b. Remove the two pick-up rails with care fixing the 2 latches with any way driver from bottom of chassis.
- c. When replacing the pick-up, carefully wipe away the grease from the shafts on which the pick-up is mounted.
- d. Replace the pick-up.
- e. Move the pick-up to the position at the left side, and then apply a coating of floil (G-474B) to the shafts.
- f. Move the pick-up to the right side and apply floil to the remaining of the shafts.



f. Inspection of slip current

Stop the TRAY on opening by force, check the slip mechanism (next gear assembly of motor)

- a. Confirm that the inner gear stops and outer gear and motor's gear rotate.
- b. Confirm that the scale of control meter is $225\text{mA} \sim 275\text{mA}$.
- c. Check this slip inspection on DC 6.0V.



* In the case of that DC current scale don't display 225mA~ 275mA, adjust to below items. read current value: A - amount of the grease (Silicon G333): B

bender angle of the spring wire $\mathsf{D}:\mathsf{C}$

RFD

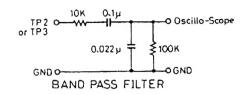
A > $275mA \rightarrow increase$ the angle C or decrease B.

A < 225mA \rightarrow decrease the angle C or increase B.

CD ADJUSTMENT

Electrical Adjustment

So far we have presented explanations regarding compact disc player handling, notes prior to repair, handling the pick-up and disassembly of the unit. Be sure to carefully read these instructions before making any adjustments.



Preparations for Adjustments

Measuring instruments, tools and filter

(1) Test disc.: YEDS 18 (Sony)

(2) Oscilloscope: SS5711 (10MHz or dual phenomenon)

or Memoryscope : DSS6521 (Storagescope)

(3) Digital voltmeter (Input impedance 1M ohm or more)

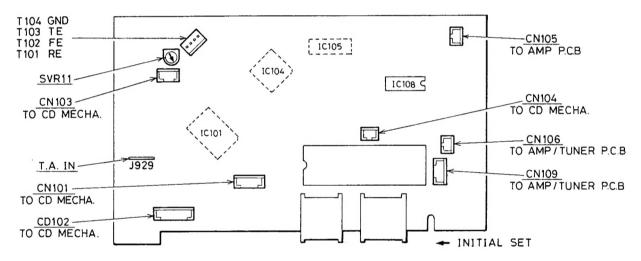
- (4) Oscillator (400Hz, 300mV RMS)
- (5) Frequency Counter (5MHz; or more)
- (6) Screw drivers (non-metalic) for adjustments
- (7) Band Pass Filter
- (8) AC Voltage Meter

Notes: a. The adjustments can be using the equipment produced by other manufactures provided that the performance of that equipment corresponds to that of the above listed models.

- b. Use a 10:1 probe for observing signals on the oscilloscope and storage scope.
- c. Test disc is subject change without notice.

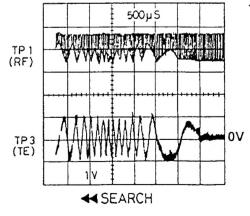
1. Initial set

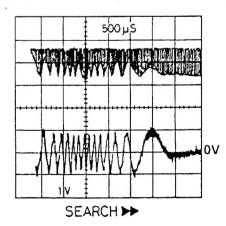
Set the SVR11 at its initial position of adjustment controls as shown in figure below.



2. Tracking Balance Adjustment (SVR11)

- 1. Connect the oscilloscope to TP3 (TE) and TP4 (GND.).
- 2. Turn on the power of the unit. Insert test disc.
- 3. Play-back the test disc.
- Continuously press the forward search >> or >> button to do it
- Adjust SVR11 so that the TE (Tracking Error) signal waveform of TP3 on the oscilloscope is vertically symmetrical relative to OV. (See figure right side)
- *If the adjustment is imperfect, become run away the sled motor (pick-up sending motor), inferior playability.

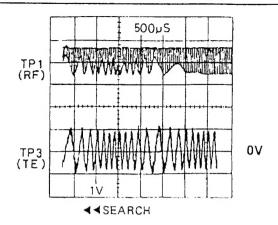




CD ADJUSTMENT-

2. Other Adjustment of Tracking Balance (SVR11)

- 1. Short J929 (A.T.IN) and TP4 (GND) or connect TP23 (T.OFF) to +5V through the resistor: 10k ohms.
- 2. Connect the oscilloscope to TP3 (TE) and TP4 (GND.).
- 3. Turn on the power of the unit.
- 4. Adjust SVR11 so that the TE (Traverse) signal waveform of TP3 during about 12 sec. on the oscilloscope is vertically symmetrical relative to 0V. Or may adjust SVR11 so that the DC voltage: (Peak Hold Level) (Bottom Hold Level) of the traverse signal is 0V. (See figure right side)
- 5. If this adjustment is not complete during 12 sec. reperform item $2\sim4$

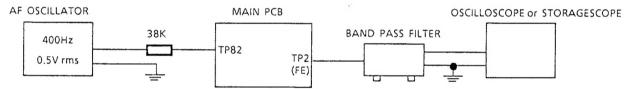


3. Focus Gain Confirmation

- Connect the storage scope to TP2 (F.E : Focus Error) through the Band pass filter. (See BPF Figure)
- 2. Turn on the power of the unit.
- 3. Play-back the test disc.

- 4. Set the output of AF oscillator to 400Hz, 0.5V rms and connect to TP82 through the resistor : 38k ohms.
- 5. Confirm so that the voltage of the F.E signal waveform on the storage scope is 0.5V p-p, ±3db by through BPF.

*If this CONFIRMATION is imperfect, become weak the mechanical shock, inferior playability, and can not playback the Disc.

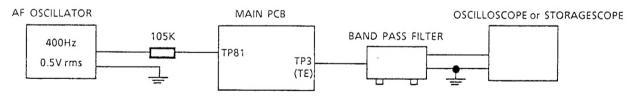


4. Tracking Gain Confirmation

- 1. Connect the storage scope to TP3 (T.E) through the Band pass filter. (See BPF Figure).
- 2. Turn on the power of the unit.
- 3. playback the test disc.

- Set the output of AF oscillator to 400Hz, 0.5V rms and connect to TP81 through resistor 105k ohms.
- 5. Confirm so that the voltage of T.E signal waveform on the storage scope is 0.5V p-p, ±3db by through BPF.

*If this CONFIRMATION is imperfect, become weak the mechanical shock, inferior playability, and can not playback the Disc.



TUNER ADJUSTMENT -

- Use a plastic screwdriver for adjustment.
- Adjust the intermediate frequency of AM and FM to the frequency of ceramic filter.

RF Level: 75 ohm Open SG voltage $dB\mu V$

1. FM BAND

Antenna: 75 ohm Unblanced Direct Modulation: 1kHz, ±75kHz dev.

STEP	ITEMS	5	FREQUENCY INDICATED	INPUT CONDI			CONNECT-	ADJUST- ING	STANDARDS
			POSITION	INSTRUCTIONS	IONS	INSTRUCTIONS	IONS	PARTS	
1	IF (V-Cur	ve)	98.0 MHz	FM Sweep Gen- erator (10.7MHz Non Modulation Small Input)	TP213(H)	FM Sweep Generator	TP223(H) TP224(E)	T2201	Symmetrical Wave Max.
	Tuning	Low	87.5 MHz			Digital	TP202(H)	L2104	1.2 ± 0.05V
2	Cover	High	108.0 MHz			Voltmeter	TP201(E)		Confirm voltage is below 8.5V
		Low	90.0 MHz	TP211(H)	VTVM	©TP233(H) ®TP234(H)	L2102 L2103	Max.	
3	Tracking	High	106.0 MHz	FM-SG	TP212(E)	Oscilloscope	TP235(E)	CT201	iviax.
4	IF S-Cur (OV)		98.0 MHz	FM-SG(66dB)	TP211(H) TP212(E)	Digital Voltmeter	TP203(H) TP204(E)	T2202	0 ± 0.05 V
5	* VCO (19	kHz)	98.0 MHz	FM-SG(66dB) (Non Modulation)	TP211(H) TP212(E)	Frequency Counter	TP206(H) TP207(E)	SVR23	19 ± 0.05kHz

Standard input Modulation for Separation : Main(L+R) : $\pm 40kHz$ dev. Pilot : $\pm 6.75kHz$ dev.

Note: TP204 is no earth point. Be careful so that digital voltmeter earth (including case) may not be in contact with other measuring equipments earth. (including case)

RF Level: Open SG voltage $dB\mu V$

2. MW BAND

Antenna: IRE Loop, Standard output: 100dB, Modulation: 1kHz 30%

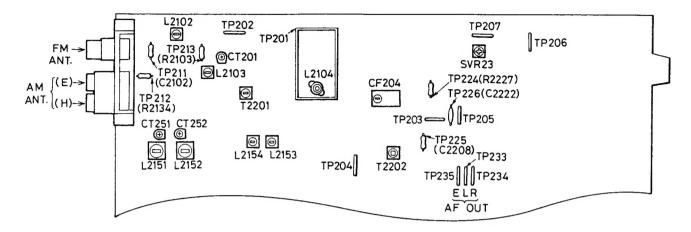
			FREQUENCY	INPUT CONDI	INPUT CONDITIONS OUTPUT CONDITIONS		INPUT CONDITIONS OUTPUT CONDITIONS ADJUST-		ADJUST-	
STEP	ITEMS		INDICATED POSITION	MEASURING INSTRUCTIONS	CONNECT- IONS	MEASURING INSTRUCTIONS	CONNECT-	ING PARTS	STANDARDS	
	Tuning	Low	522 kHz			Digital	TP202(H)	L2153	1.2 ± 0.03V	
	Cover	High	1611 kHz			Voltmeter	TP201(E)		Confirm voltage is below 8.0V	
	T1.:	Low	603 kHz	ANA 5.5	IRE Loop	VTVM	©TP233(H) ®TP234(H)	L2152	Max.	
2	Tracking	High	1404 kHz	AM-SG	Ant.	Oscilloscope	TP235(E)	CT252	iviax.	

3. LW BAND

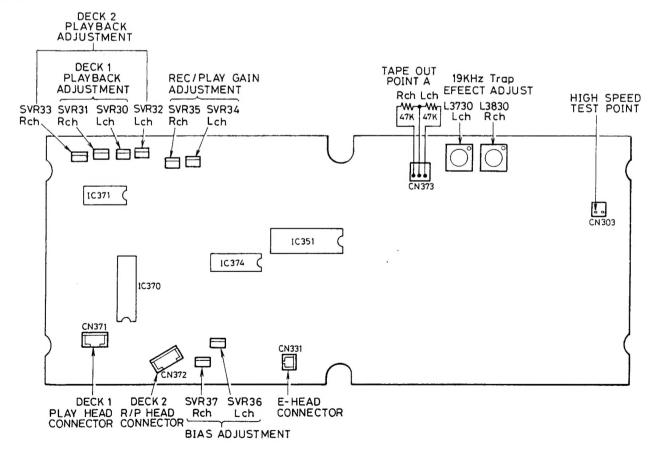
Antenna: IRE Loop, Standard modulation: 400Hz 30%

			FREQUENCY	INPUT CONDI	INPUT CONDITIONS OUTPUT CONDITIONS ADJUST-		ADJUST-		
STEP	ITEMS	5	INDICATED POSITION	MEASURING INSTRUCTIONS	CONNECT-	MEASURING INSTRUCTIONS	CONNECT- IONS	ING PARTS	STANDARDS
	Tuning	Low	144 kHz			Digital	TP202(H)	L2154	1.6 ± 0.05V
	Cover	High	290 kHz			Voltmeter	TP201(E)		Confirm voltage is below 7.5V
	T	Low	162 kHz	AAA 5 G (05 ID)	IRE Loop	VTVM	©TP233(H)	L2151	NA
2	Tracking	High	279 kHz	AM-SG(85dB)	Ant.	Oscilloscope	TP235(E)	CT251	Max.

<TUNER>



<DECK>



ADJUSTMENT OF DECK & TORQUE -

1. Amplifier Adjustment

ADJUST TEST TAPE INPUT DOLBY SW OUTPUT REMARKS DECK ITEM POINT Adjust so as 10kHz output become TAPE Azimuth DECK 1 VTT738 OFF Head Azimuth OUT Screw DECK 2 SVR30 (L-ch) DECK 1 Adjust so as TAPE OUT output become SVR31 (R-ch) TAPE Playback OFF TCC130 2 0.54V. OUT SVR32 (L-ch) Level DECK 2 SVR33 (R-ch) SVR34 (L-ch) Adjust SVR so as Monitor o/p = R/P Level 1kHz TAPE Rec/Play AC224 OFF DECK 2 3 OUT SVR35 (R-ch) $= 0dB \pm 1dB$. -18dB Level R/P signal, set frequency characteristic TAPE SVR36 (L-ch) 1kHz/10kHz Rec/Play

Note. 1. During alignment, measurement Beat cancel SW is at 1 condition fundamentally, confirm Rec/Play frequency characteristic, dolby effect also by 2 condition, when ship out set SW to 1 position.

OUT

OFF

2. Tape Speed Adjustment

Frequency

4

Connect the FREQUENCY COUNTER to TAPE OUT.

DECK 2

1. Insert the test tape(MTT-111N, etc.: 3000Hz) into the DECK 1.

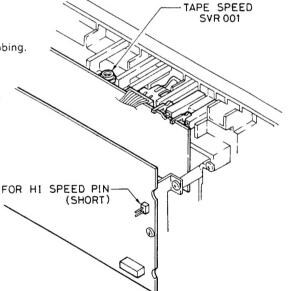
AC224

-28dB

Note: Set the test tape near the tape end.

SVR37 (R-ch)

- 2. Press the FWD PLAY button.
- 3. Adjust SVR001 so that a frequency counter reading of 3000 ± 5 Hz is obtained.
- 4. Press the STOP button, and eject the test tape.
- 5. Insert the test tape(TCW-211, etc.: 1500Hz) into the DECK 1.
- 6. Insert the tape (C-60 Blank tape) into the DECK 2.
- 7. Press the REC button of DECK 2 and press the TAPE A/B button. Press the FWD PLAY button. Both mechanism become normal speed dubbing.
- 8. Short the high speed test pin to the high speed position. (The mechanism is high speed dubbing.)
- 9. Confirm that a frequency counter reading of $2700 \sim 3300 \text{Hz}$ is obtained.



TAPE SW : NORMAL

1kHz output to 0dB. Adjust SVR so as

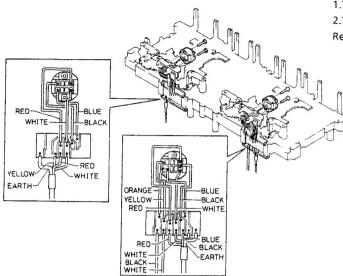
10kHz output become ±1dB.

3. Torque Measurements

ITEM	TAKE-UP TORQUE	BACK TENSION	PULLEY TENSION
Test cassette	PLAY :TW2111(FWD) PLAY :TW2121(REV) F.FWD / REW;TW2231	PLAY :TW2111(FWD) PLAY :TW2121(REV) REW:Torque Gage	Driving power cassette: TW-2412(FWD) TW-2422(REV)
PLAY	30 ~ 60gr.cm	2.0 ~ 5.0gr.cm	> 80g
F.FWD	70 ~ 140gr.cm	-	
REW	70 ~ 140gr.cm	-	

DISASSEMBLY (TAPE MECHANISM) -

1. Replacement of Head

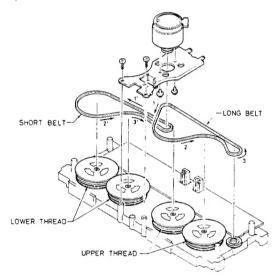


LEAD CONNECTION METHOD OF ROTARY HEAD

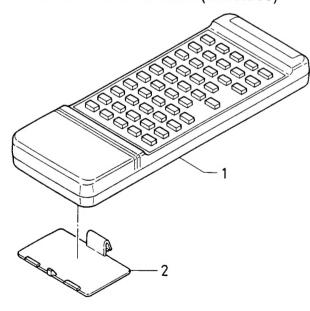
1.The root (Bonding parts) of leads from head fix the rubber adhesiver. 2.Twit (Turn) the fixed Leads.

Reason : Cut for rotation

2. Replacement of Motor & Belt



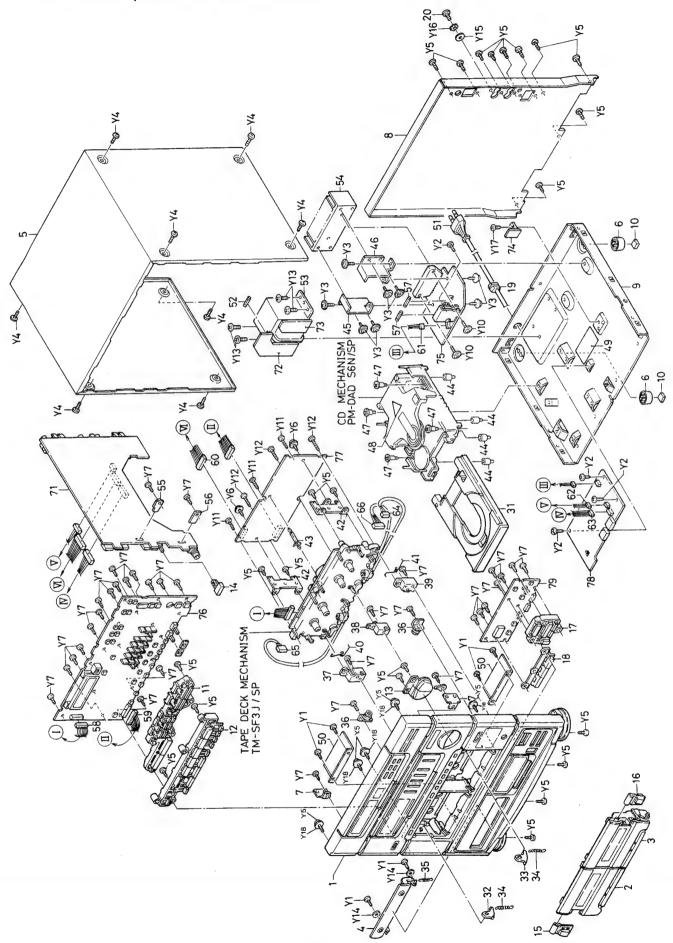
REMOTE CONTROLLER (RB-X900) -



PARTS LIST

REMOTE CONTROLLER(RB-X900)

REF.NO.	PART NO.	DESCRIPTION	
1 2	614 233 7141 614 233 6717 614 231 2087	ASSY.REMOCON ASSY.REMOCON LID.BATTERY	



PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol \triangle in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with \triangle , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.

Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

CAUTION: Regular type resistors and capacitors are not listed. To know those values, refer to the schematic diagram.

PACKING & ACCESSORIES

I HCMINO O	HCCE330KIE3	
REF.NO.	PART NO.	DESCRIPTION
	614 233 0753	INNER CARTON
	614 231 4180	PAD.TOP
	614 231 4173	PAD.BOTTOM
	614 231 6672	POLY COVER, SET
	614 176 3231	INNER POLYE COVER, INST
	614 231 2490	POLY COVER, REMOCON
	614 176 1039	INNER POLYE COVER, SCREW OF AM ANT
	614 233 0807	INSTRUCTION MANUAL
	614 231 6832	LABEL, SAFETY, LASER
	614 023 7344	ANT.FM
	614 208 7565	LOOP ANT, AM
	614 212 2341	MOUNT-E.BRACKET,LOOP ANT
	411 083 9307	SCR WOOD RND 3.1X3,AM ANT

CARTNET & CHASSIS

REF.NO.	PART NO.	DESCRIPTION
1	614 228 4421	ASSY, PANEL, FRONT
2	614 227 8253	ASSY, LID, CASSETTE, DECK 1
3	614 229 7995	ASSY, LID, CASSETTE, DECK 2
4	614 228 4667	DOOR,CD TRAY
5	614 232 7616	ASSY, CABINET
6	614 207 2387	FOOT, STAND, REAR
7	614 207 2394	BRACKET-E, FRONT FIX
8	614 229 8084	PANEL, REAR
9	614 229 8022	CABINET, BOTTOM
10	614 106 4215	STAND, FOOT
11	614 228 4995	BUTTON.TUNER
12	614 231 7488	BUTTON, AMP DECK
13	614 228 4544	BUTTON.VR
14	614 228 0218	BUTTON.BASS
15	614 227 8338	BUTTON, EJECT L
16	614 227 8345	BUTTON, EJECT R
17	614 228 4032	BUTTON, CD (OPEN/CLOSE)
18	614 228 4551	BUTTON, CD(EDIT)
19	614 129 1901	FIXER,AC CORD
20	412 003 2804	SPECIAL SCREW, PHONO EARTH
31	614 221 1410	TABLE, LOADING, CD TRAY
32	614 221 8983	LEVER, DECK EJECT L
33	614 221 8990	LEVER, DECK EJECT R
34	614 208 9606	SPRING, TENS, EJECT LEVER
35	614 221 0246	SPRING, TENS, CD DOOR
36	614 069 0385	GEAR ASSY, DAMPER
37	614 227 8383	MOUNT-M.DECK L
38	614 227 8390	MOUNT-M.DECK C
39	614 227 8406	MOUNT-M.DECK R
40	614 227 8475	SPRING, WIRE, LID OPEN L
41	614 227 8482	SPRING, WIRE, LID OPEN R
42	614 221 8839	BRACKET-E, DECK PCB FIX
43	614 129 5558	FIXER, DECK PCB FIX
44	614 124 8899	RUBBER CUSHION, CD MECHANISM
45	614 207 3490	BRACKET-E. HEAT SINK FIX.L
46	614 207 3506	BRACKET-E-HEAT SINK FIX.R
47	412 004 5705	SPECIAL SCREW.CD MECHANISM
48	614 191 3698	LABEL, LASER
49	614 232 0464	LABEL, SAFETY, LASER

REF.NO.	PART NO.	DESCRIPTION
50	614 231 3107 614 129 4971	SHIELD.DECK FIXER,LEAD DRESS
OR	614 129 2496	FIXER, LEAD DRESS

FIXING PARTS

REF.NO.	PART NO.	DESCRIPTION
Y1	411 021 2704	SCR S-TPG BIN 2.6X6
Y2	411 021 5705	SCR S-TPG BIN 3X6
Y3	411 020 9803	SCR S-TPG BRZ+FLG 3X6
Y4	411 021 6603	SCR S-TPG BIN 3X8
Y5	411 021 6405	SCR S-TPG BIN 3X8
Y6	411 020 9902	SCR S-TPG BRZ+FLG 3X8
Y7	411 021 3503	SCR S-TPG BIN 3X10
Y8	411 020 8905	SCR S-TPG BRZ+FLG 3X10
Y9	411 021 4005	SCR S-TPG BIN 3X12
Y10	411 020 9506	SCR S-TPG BRZ+FLG 3X16
Y11	411 021 4906	SCR S-TPG BIN 3X20
Y12	411 098 4403	SCR S-TPG BIN 3X25
Y13	411 001 3905	SCR S-TPG BIN 4X6
Y14	411 092 0906	WASHER Z 2.6X10X0.5
Y15	411 105 9704	WASHER Z 3X10X1
Y16	411 008 0402	WASHER OUT TW 3
Y17	411 001 1901	SCR S-TPG BIN 3X6
Y18	411 092 3709	WASHER Z 3X13X1

ELECTRICAL PARTS

REF.NO.	PART NO.	DESCRIPTION
51	∆614 023 3100	POWER CORD, AC
52	∆ 423 016 9803	FUSE 250V 0.63A,FU999
53	∆ 614 230 1975	POWER TRANSFORMER(P.T),AC
54	∆614 209 4259	HEAT SINK, FOR IC752
55	614 233 3419	PCB.FIX PCB1
56	614 233 3433	PCB,FIX PCB2
57	∆ 423 016 7908	FUSE 250V 2.5A.SP.FU701-801
58	614 231 7280	ASSY,CONNECTOR-S,8P,FRONT~MECHA (CN001)
59	614 231 7273	ASSY,CONNECTOR-S,8P,FRONT~DECK (CN003)
60	614 231 6269	ASSY.CONNECTOR-S.8P.AMP~DECK LEAD
61	614 234 5863	ASSY,CONNECTOR-S,3P, CD-POWER-AMP PCB(CN120)
62	614 234 5870	ASSY,CONNECTOR-S,3P, CD-TU/PRE-AMP PCB(CN121)
63	614 234 5887	ASSY,CONNECTOR-S,SP. CD-TU/PRE-AMP PCB(CN122)
64	614 231 2599	ASSY, CONNECTOR-S.2P, E HEAD(CN341)
65	614 231 2575	ASSY, CONNECTOR-S.4P.P HEAD(CN381)
66	614 231 2582	ASSY, CONNECTOR-S.5P, R/P HEAD
		(CN382)

REF.NO.	PART NO.	DESCRIPTION
71	614 230 1364	ASSY,PCB,AMP.TU
	614 051 9785	LUG, FRONT BRACKET
C2152	403 082 2007	POLYPRO 510P J 100V
C2155	403 082 2007	POLYPRO 510P J 100V
C2304	403 080 5000	POLYPRO 1000P J 100V
C2451	403 019 0403	CERAMIC 24P J 50V NPO
C2452	403 019 0403	CERAMIC 24P J 50V NPO
C2458	403 106 1603	NP-ELECT 1U Q 50V
C4003	403 062 5103 403 062 5103	POLYESTER 5600P K 50V POLYESTER 5600P K 50V
C4004 C4005	403 057 0403	POLYESTER 0.01U K 50V
CF201	614 231 0199	FILTER, FM
CF202	614 231 0199	FILTER,FM
CF203	614 231 0199	FILTER.FM
CF204	614 211 2939	FILTER,AM
CF205	614 030 7443	I.F FILTER,AM
CN201	614 210 2688	TERMINAL.ANT(DIN+PUSH 2P)
CN491	614 227 0011	SOCKET, 10P(B TO B), TO FRONT1
CN492	614 226 9985	SOCKET,6P(B TO B),TO FRONT2
CN493	614 226 9985	SOCKET, 6P(B TO B), TO FRONT3
CN700	614 017 2171	PLUG, 10P, TO DECK
CN701	614 017 2140 614 017 1440	PLUG,7P,TO POWER-AMP PLUG,3P,TO POWER-AMP
CN702 CN705	614 017 1440	PLUG.SP.TO DECK
CN710	614 017 2560	PLUG.5P,TO CD MAIN
CN711	614 017 2546	PLUG-3P, TO CD MAIN
CN730	614 226 9985	SOCKET.6P(B TO B).TO FRONT4
CN731	614 226 9985	SOCKET, 6P(B TO B), TO FRONTS
CN750	614 035 2702	SOCKET, 2P(RCA PIN), PHONO
CN751	614 035 2702	SOCKET, 2P(RCA PIN), VIDEO
CN752	614 035 1712	SOCKET, HEADPHONE
CN753	614 218 0068	TERMINAL, 4P, SPEAKER
CT251	614 007 6332	TRIMMER, 30PF (GR)
CT252	614 007 6356	TRIMMER, 11PF (WH)
D2151	407 091 5004 407 091 5004	VARACTOR DI SVC321SPA-C-2 VARACTOR DI SVC321SPA-C-2
D2152 D2201	407 097 3004	DIODE 6MA01
OR	407 012 4406	DIODE 155133
OR	407 012 5809	DIODE 155176
D2301	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
OR	407 012 5809	DIODE 1SS176
D2302	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
OR	407 012 5809	DIODE 1SS176
D2354	407 007 9904	DIODE GMAO1
OR I	407 012 4406	DIODE 188133
0R	407 012 5809 407 007 9904	DIODE 1SS176 DIODE GMAO1
02355 0R	407 007 9904	DIODE 1SS133
OR OR	407 012 4408	DIODE 188176
D2451	407 005 4505	DIODE DS442X
OR OR	407 013 1701	DIODE 1S1588
OR	407 013 7109	DIODE 1S2473
D4061	407 012 4406	DIODE 188133
OR	407 007 9904	DIODE GMA01
OR	407 012 5809	DIODE 155176
D4062	407 012 4406	DIODE 1SS133
OR OR	407 007 9904	DIODE GMAO1
OR DC OOZ	407 012 5809	DIODE 1SS176
D4083	407 005 4505	DIODE DS442X
OR OR	407 013 7109	DIODE 1S2473 DIODE 1S1588
D4084	407 013 1701 407 007 9904	DIODE GMAO1
0R	407 007 9904	DIODE ISS133
OR OR	407 012 4408	DIODE 188176
D4851	407 053 3208	ZENER DIODE MTZ12B
	407 012 4406	DIODE 155133

04852 407 007 9904 DIODE GMAO1 0R 407 012 5809 DIODE 1SS176 D4920 407 053 6704 ZENER DIODE MTZ5.6B D4921 407 053 6704 ZENER DIODE MTZ5.6B IC201 409 195 3108 IC LA1265-AUD IC202 409 016 9500 IC LA3361 IC203 409 066 7600 IC LM7001 IC701 409 018 4909 IC LA6458S IC702 409 003 9308 IC BU4051B IC703 409 018 4909 IC LA6458D IC802 409 003 9308 IC BU4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
D4920	
D4921 407 053 6704 ZENER DIODE MTZ5.6B IC201 409 195 3108 IC LA1265-AUD IC202 409 016 9500 IC LA3361 IC203 409 066 7600 IC LM7001 IC701 409 018 4909 IC LA6458S IC702 409 003 9308 IC BU4051B IC703 409 018 4909 IC LA6458S IC751 409 018 4305 IC LA6458D IC802 409 003 9308 IC BU4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
IC201 409 195 3108 IC LA1265-AUD IC202 409 016 9500 IC LA3361 IC203 409 066 7600 IC LM7001 IC701 409 018 4909 IC LA6458S IC702 409 003 9308 IC BU4051B IC703 409 018 4909 IC LA6458S IC751 409 018 4305 IC LA6458D IC802 409 003 9308 IC BU4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
IC202 409 016 9500 IC LA3361 IC203 409 066 7600 IC LM7001 IC701 409 018 4909 IC LA6458S IC702 409 003 9308 IC BU4051B IC703 409 018 4909 IC LA6458S IC751 409 018 4305 IC LA6458D IC802 409 003 9308 IC BU4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
IC701 409 018 4909 IC LA6458S IC702 409 003 9308 IC BU4051B IC703 409 018 4909 IC LA6458S IC751 409 018 4305 IC LA6458D IC802 409 003 9308 IC BU4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
IC702 409 003 9308 IC BU4051B IC703 409 018 4909 IC LA6458S IC751 409 018 4305 IC LA6458D IC802 409 003 9308 IC BU4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
IC703 409 018 4909 IC LA6458S IC751 409 018 4305 IC LA6458D IC802 409 003 9308 IC BU4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
IC751 409 018 4305 IC LA6458D IC802 409 003 9308 IC 8U4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
IC802 409 003 9308 IC BU4051B IC902 409 020 2900 IC LB1433N L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
L2151 614 216 1029 TRANS.RF.LW L2152 614 032 8059 ANT COIL.MW	
L2152 614 032 8059 ANT COIL, MW	
L2153 614 033 8904 O.S.C COIL,MW	
L2153	
L2190 614 034 7135 VHF COIL, AM ANT	
L2191 614 034 7135 VHF COIL, AM ANT	
L2201 614 028 4379 FILTER,1000UH	
L2451 614 028 4256 FILTER,100 UH	
Q2105	
OR 405 016 2305 TR 2SC2878-B	
Q2153 405 016 2206 TR 2SC2878-A	
OR 405 016 2305 TR 2SC2878-B	
Q2154 405 016 2206 TR 2SC2878-A	
OR	
OR 405 016 2305 TR 2SC2878-B	
Q2156 405 016 2206 TR 2SC2878-A	
OR 405 016 2305 TR 2SC2878-B	
Q2157	
OR 405 020 7204 TR 25C795A-T-K	
Q2201 405 018 7902 TR 2SC380TM-0	
-Q2202 405 012 2002 TR 2SC1815-GR	
OR 405 020 7204 TR 2SC945A-K	
02203	
OR 405 020 7204 TR 2SC945A-K	
Q2302 405 067 0800 TR RN2207	
OR 405 078 2404 TR BN1A4P	
OR	
OR 405 078 2404 TR BN1A4P	
OR 405 000 0904 TR DTA114YS	
Q2352 405 067 0800 TR RN2207	
OR	
OR 405 000 0904 TR DTA114YS Q2353 405 067 0800 TR RN2207	
OR 405 078 2404 TR BN1A4P	
OR 405 000 0904 TR DTA114YS	
Q2354	
OR	
Q2355 405 067 0800 TR RN2207	
OR 405 078 2404 TR BN1A4P	
OR 405 000 0904 TR DTA114YS	
92451 405 078 4903 TR 2SC2634-R	
OR	
OR 405 078 5009 TR 25C2634-S	
Q2453 405 012 2002 TR 2SC1815-GR	
OR 405 020 7204 TR 2SC945A-K	
Q2701	
92702 405 016 2206 TR 2SC2878-A	

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REF.NO.	PART NO.	DESCRIPTION
Q2702	405 016 2305	TR 2SC2878-B
Q2801	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q2802	405 016 2206	TR 2SC2878-A
OR	405 016 2305	TR 2SC2878-B
Q2901	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4072	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4083	405 000 6104	TR DTC144ES
OR	405 078 3005	TR BA1L4M
OR	405 001 0408	TR RN1204
OR	405 018 2501	TR 2SC3399
Q4084	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4581	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4582	405 107 8704	TR BA1A4Z
OR	405 000 3400	TR DTC114TS
OR	405 037 0205	TR 2SC3860
OR	405 035 1600	TR RN1211
Q4583	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4681	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4682	405 107 8704	TR BA1A4Z
OR	405 000 3400	TR DTC114TS
OR	405 037 0205	TR 2SC3860
OR	405 035 1600	TR RN1211
Q4683	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4851	405 015 1606	TR 2SC2655-Y
R2465	∆ 401 018 1209	CARBON 33 JB 1/4W
R4709	401 009 5506	CARBON 330 JB 1/2W
R4809	401 009 5506	CARBON 330 JB 1/2W
R4851	▲ 402 023 1703	FUSIBLE RES 100 J-1/4W
RY701	614 224 4531	RELAY, SP
\$3181	614 012 4316	SWITCH.BEAT CANCEL
0R	614 023 8297	SWITCH.BEAT CANCEL
S4701	614 230 2521	SWITCH, PUSH, BASSXPANDER
SVR23	614 204 1901	SEMI-FIXED U.R.10K OHM(B)
T2202	614 030 4114	I.F.T.FM
12203	614 029 3906	MX COIL, LPF
T2701	614 027 7845	CHOKE, TRAP, L
T2801	614 027 7845	CHOKE, TRAP, R
TROO1	614 232 6404	TERMINAL, PHONO EARTH
TR002	614 234 1728	TERMINAL, PCB FIX
TU201	620 208 3087	TUNER, FM, FRONT END
X2451	614 229 2457	CRYSTAL,7.2MHZ

Ρ.	T.	PRIMARY	P.C.	RÕARN	Y224
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REF.NO.	PART NO.	DESCRIPTION	
72	614 230 1418 614 017 8203	ASSY.PCB,P.I-PRI TERMINAL BOARD,AC-IN	
F9999 FCLP5 FCLP6	▲614 229 0422 614 208 4540 614 208 4540	INDUCTOR.FERITE FUSE HOLDER.FOR FU999 FUSE HOLDER.FOR FU999	

P.T SECONDARY P.C.BOARD ASSY

TO SECONDAIL 1:0:DONNO HOUT			
REF.NO.	PART NO.	DESCRIPTION	
 73 CN770 OR	614 230 1463 614 020 6579 614 223 9230	ASSY,PCB.P.T-SEC SOCKET,SP.TO POWER-AMP SOCKET,SP.TO POWER-AMP	
CN771	614 020 1246	SOCKET, SP, TO POWER-AMP	

REF.NO.	PART NO.	DESCRIPTION
ICP51	<u> </u>	IC PROTECTOR ICP-N25
ICP52	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IC PROTECTOR ICP-N25
R4931	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RESISTOR 0.47 J-1/2W
R4932	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FUSIBLE RES 1 J-1/4W
R4935	∆ 402 044 1607	RESISTOR 0.33 J-1/2W
R4936	▲402 044 1607	RESISTOR 0.33 J-1/2W

REGULATOR IC P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION
74 CN750 OR IC952 OR OR OR	614 233 3044 614 020 6555 614 223 9216 A409 122 6202 A409 078 2402 A409 168 2107 A409 001 7603	ASSY,PCB,REG-IC SOCKET,3P,TO POWER-AMP SOCKET,3P,TO POWER-AMP IC NJM7812FA IC L7812ML IC UPC7812HF IC AN7812F

POHER AMPLIFIER P.C.BOARD ASSY

		1.001
REF.NO.	PART NO.	DESCRIPTION
75	614 230 1531	ASSY, PCB, POWER-AMP
	614 203 7362	HEAT SINK FOR IC951
C4907	403 053 4405	ELECT 2200U M 35V
C4908	403 053 4405	ELECT 2200U M 35V
CN800	614 020 6623	SOCKET, 10P (DIP)
OR	614 223 9285	SOCKET, 10P(DIP)
CN801	614 020 6593	SOCKET.7P(DIP)
OR	614 223 9254	SOCKET.7P(DIP)
CN802	614 020 1222	SOCKET.3P(DIP)
CN812	614 017 2546	PLUG.3P.TO CD-MAIN
CN850	614 020 6555	SOCKET.3P.TO REG-IC
OR	614 223 9216	SOCKET,3P,TO REG-IC
CN870	614 020 6579	SOCKET, SP, TO P. T-SEC
OR	614 223 9230	SOCKET.SP.TO P.T-SEC
CN871	614 020 1246	SOCKET.SP.TO P.T-SEC
CN900	614 231 4302	SOCKET, 10P, TO TUN/PRE-AMP
CN901	614 211 3349	SOCKET.7P.TO TUN/PRE-AMP
CN902	614 233 3082	ASSY, CONNECTOR-S.3P,
CITIOL	014 233 3002	TO TUN/PRE-AMP(SP OUT)
D4081	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMAO1
OR	407 012 5809	DIODE 1SS176
D4831	407 012 4406	DIODE 188133
OR D4651	407 007 9904	DIODE GMA01
OR	407 012 5809	DIODE 1SS176
D4832	407 012 4406	
OR OR	407 007 9904	DIODE 1SS133 DIODE GMA01
OR	407 012 5809	DIODE 1SS176
D4901	407 077 7800	
D4701	407 053 3802	DIODE RBV-402LF-A
D4910		ZENER DIODE MTZ15C
	407 012 4406 407 007 9904	DIODE 1SS133
OR OR		DIODE GMA01
OR D4911	407 012 5809	DIODE 188176
OR OR	407 012 4406	DIODE 1SS133
	407 007 9904	DIODE GMA01
OR DV013	407 012 5809	DIODE 1SS176
D4912	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMAO1
OR	407 012 5809	DIODE 188176
D4913	407 012 4406	DIODE 1SS133
OR OR	407 007 9904	DIODE GMAO1
OR	407 012 5809	DIODE 1SS176
D4914	407 050 2204	ZENER DIODE GZA30Y
D4931	407 012 3300	DIODE 1SR35-200A
D4932	407 012 3300	DIODE 1SR35-200A

REF.NO.	PART NO.	DESCRIPTION
D4933	407 012 3300	*DIODE 1SR35-200A
D4934	407 012 3300	DIODE 1SR35-200A
FCLP1	614 208 4540	FUSE HOLDER, FOR FU701
FCLP2	614 208 4540	FUSE HOLDER, FOR FU701
FCLP3	614 208 4540	FUSE HOLDER, FOR FU801
FCLP4	614 208 4540	FUSE HOLDER, FOR FU801
IC752	409 047 0200	IC STK4132MK2
IC951	409 027 1005	IC L780S12
Q4070	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4071	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4831	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
Q4903	405 015 1606	TR 2SC2655-Y
Q4904	405 001 9302	TR 2SA1020-Y
Q4905	405 001 7209	TR 2SA1015-Y
Q4910	405 001 9302	TR 2SA1020-Y
R4706	401 008 7204	CARBON 2.2K JB 1/2W
R4708	401 010 5908	CARBON 5.6 JB 1/2W
R4806	401 008 7204	CARBON 2.2K JB 1/2W
R4808	401 010 5908	CARBON 5.6 JB 1/2W
R4841	▲402 023 1703	FUSIBLE RES 100 J-1/4W
R4844	∆ 402 023 1703	FUSIBLE RES 100 J-1/4W
R4909	∆ 402 004 4303	FUSIBLE RES 10 J-1/4W
R4910	∆ 402 004 4303	FUSIBLE RES 10 J-1/4W
R4920	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FUSIBLE RES 3.9 J-1/4W
R4921	∆ 402 023 1703	FUSIBLE RES 100 J-1/4W
K4921	A5402 025 1703	FUSTREE KE2 100 3-1/4W

FRŌNT	P.C.BOARD	ASSY

REF.NO.	PART NO.	DESCRIPTION
76	614 230 6000	ASSY,PCB,FRONT
	614 228 0232	MOUNT-E,L,TUN FL
	614 228 0249	MOUNT-E,R,TUN FL
C4573	403 135 3302	ELECT 1000U M 6.3V
OR	403 196 4102	ELECT 1000U M 6.3V
C5021	403 196 9602	DL-ELECT 0.047F Z 5.5V
CN001	614 017 2591	PLUG.8P.TO DECK 1 MECHANISM
CN002	614 231 5330	ASSY, CONNECTOR-S, 8P,
		TO DECK 2 MECHANISM
CN003	614 017 3871	PLUG.8P.TO DECK-AMP
CN004	614 226 9978	PLUG,10P(B TO B),TO TUN/PRE-AMP
CN005	614 226 9930	PLUG.6P(B TO B).TO TUN/PRE-AMP
CN006	614 226 9930	PLUG, 6P(B TO B), TO TUN/PRE-AMP
CN007	614 226 9930	PLUG.6P(B TO B).TO TUN/PRE-AMP
CN008	614 226 9930	PLUG,6P(B TO B),TO TUN/PRE-AMP
D4100	408 013 3207	LED SLZ-381C-09-A, LEVEL METER,
OR	408 013 3306	LED SLZ-381C-09-B, LEVEL METER, LEFT
D4101	408 013 3207	LED SLZ-381C-09-A,LEVEL METER, LEFT
OR	408 013 3306	LED SLZ-381C-09-B, LEVEL METER,
D4102	408 013 3207	LED SLZ-381C-09-A, LEVEL METER, LEFT
OR	408 013 3306	LED SLZ-381C-09-B, LEVEL METER, LEFT
D4103	408 013 3207	LED SLZ-381C-09-A, LEVEL METER,
OR	408 013 3306	LED SLZ-381C-09-B, LEVEL METER,
D4104	408 013 3207	LED SLZ-381C-09-A, LEVEL METER,
OR	408 013 3306	LED SLZ-381C-09-B, LEVEL METER, LEFT

REF.NO.	PART NO.	DESCRIPTION
	408 013 3207	LED SLZ-381C-09-A, LEVEL METER,
D4200	408 013 3207	RIGHT
OR	408 013 3306	LED SLZ-381C-09-B,LEVEL METER, RIGHT
D4201	408 013 3207	LED SLZ-381C-09-A,LEVEL METER, RIGHT
OR	408 013 3306	LED SLZ-381C-09-B,LEVEL METER, RIGHT
D4202	408 013 3207	LED SLZ-381C-09-A, LEVEL METER, RIGHT
OR	408 013 3306	LED SLZ-381C-09-B,LEVEL METER, RIGHT
D4203	408 013 3207	LED SLZ-381C-09-A,LEVEL METER, RIGHT
OR	408 013 3306	LED SLZ-381C-09-B,LEVEL.METER, RIGHT
D4204	408 013 3207	LED SLZ-381C-09-A,LEVEL METER, RIGHT
OR	408 013 3306	LED SLZ-381C-09-B, LEVEL METER, RIGHT
D4570	407 013 1701	DIODE 151588
OR OR	407 013 7109 407 005 4505	DIODE 1S2473 DIODE DS442X
D4571	407 012 5809	DIODE 1SS176
OR	407 012 4406	DIODE 1SS133
OR	407 007 9904	DIODE GMAO1
04572 OR	407 012 5809 407 012 4406	DIODE 1SS176 DIODE 1SS133
OR	407 007 9904	DIODE GMA01
D4573	407 144 4206	ZENER DIODE MTZ3.0A
OR DATE OF	407 070 4004	ZENER DIODE GZS3.0X LED SLZ-181C-09-A.VOL METER.10
D4590 OR	408 013 2903 408 013 3009	LED SLZ-181C-09-H, VOL METER, 10
D4591	408 013 2903	LED SLZ-181C-09-A, VOL METER, 20
OR	408 013 3009	LED SLZ-181C-09-B, VOL METER, 20
D4592 OR	408 013 2903 408 013 3009	LED SLZ-181C-09-A.VOL METER.30 LED SLZ-181C-09-B.VOL METER.30
D4593	408 013 2903	LED SLZ-181C-09-A, VOL METER, 40
OR	408 013 3009	LED SLZ-181C-09-B, VOL METER, 40
D4594	408 013 2903	LED SLZ-181C-09-A, VOL METER, 50
OR	408 013 3009	LED SLZ-181C-09-B, VOL METER, 50 (MAX)
D5010	407 012 5809	DIODE 1SS176
OR OR	407 012 4406 407 007 9904	DIODE 1SS133 DIODE GMAO1
OR D5019	407 007 7704	DIODE 1SS176
OR	407 012 4406	DIODE 1SS133
OR DE030	407 007 9904	DIODE GMAO1
D5020 OR	407 012 5809 407 012 4406	DIODE 1SS176 DIODE 1SS133
OR	407 007 9904	DIODE GMA01
05025	407 053 7503	ZENER DIODE MTZ6.8A
0R 05030	407 051 7406 407 053 5301	ZENER DIODE GZS6.8X ZENER DIODE MTZ3.9C
03030 0R	407 051 5907	ZENER DIODE GZS3.9Z
05050	407 013 1701	DIODE 1S1588
OR OR	407 013 7109 407 005 4505	DIODE 1S2473 DIODE DS442X
D5051	407 003 4303	DIOUE 05442X DIOUE 151588
OR	407 013 7109	DIODE 1S2473
OR	407 005 4505	DIODE DS442X
D5052 OR	407 013 1701 407 013 7109	DIODE 1S1588 DIODE 1S2473
OR	407 005 4505	DIODE DS442X
05053	407 013 1701	DIODE 151588
OR OR	407 013 7109	DIODE 1S2473
OR	407 005 4505	DIODE DS442X

D5054 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5055 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5056 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5057 407 012 5809 DIODE 1SS176 OR 407 012 5809 DIODE 1SS133 OR 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133 OR 407 012 4406 DIODE GMA01 D5058 407 012 5809 DIODE 1SS176 OR 407 012 5809 DIODE GMA01 D5059 407 012 5809 DIODE GMA01 D5059 407 012 5809 DIODE 1SS173 OR 407 007 9904 DIODE GMA01 D5060 407 012 5809 DIODE 1SS133 OR 407 01	
OR	
D5055 407 012 5809 D10DE 1SS176 OR 407 012 4406 D10DE 1SS133 OR 407 007 9904 D10DE GMA01 D5056 407 012 5809 D10DE 1SS176 OR 407 012 4406 D10DE 1SS133 OR 407 007 9904 D10DE GMA01 D5057 407 012 5809 D10DE 1SS176 OR 407 012 4406 D10DE 1SS133 OR 407 012 4406 D10DE 1SS133 OR 407 007 9904 D10DE GMA01 D5058 407 012 5809 D10DE 1SS176 OR 407 012 4406 D10DE 1SS133 OR 407 012 4406 D10DE GMA01 D5059 407 012 5809 D10DE 1SS176 OR 407 012 4406 D10DE 1SS133 OR 407 012 4406 D10DE 1SS133 OR 407 012 5809 D10DE 1SS136 OR 407 012 5809 D10DE 1SS176 OR 407 012 5809 D10DE GMA01 D5060 407 012 5809 D10DE 1SS176 OR 407 012 58	
OR	
OR	
DS056	
OR 407 012 4406 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5057 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5058 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS176 OR 407 007 9904 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5059 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5060 407 012 5809 DIODE SS176 OR 407 012 5809 DIODE SS176 OR 407 012 5809 DIODE SS176 OR 407 012 5809 DIODE SS176	
D5057	
OR	
OR 407 007 9904 DIODE GMA01 D5058 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5059 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS176 OR 407 007 9904 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5060 407 012 5809 DIODE SS176 OR 407 012 4406 DIODE SS176 OR 407 012 4406 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133	
D5058	
OR	
OR	
D5059	
OR 407 012 4406 DIODE 1SS133 OR 407 007 9904 DIODE GMA01 D5060 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133	
OR	
OR 407 012 4406 DIODE 1SS133	
I UK 407 007 9904 DIODE GMA01	
D5061 407 012 5809 DIODE 1SS176 OR 407 012 4406 DIODE 1SS133	
OR 407 072 4408 DIODE 133133	
D5062 407 012 5809 DIODE 1SS176	
OR 407 012 4406 DIODE 1SS133	
OR 407 007 9904 DIODE GMA01	
D5063 407 013 1701 DIODE 1S1588	
OR 407 013 7109 DIODE 1S2473	
OR 407 005 4505 DIODE DS442X	
D5070	
OR 407 007 9904 DIODE 6MA01	
D5099 407 053 6704 ZENER DIODE MTZS.6B	
OR 407 051 6904 ZENER DIODE GZS5.6Y	
D5220 407 013 1701 DIODE 1S1588	
OR 407 013 7109 DIODE 152473	
OR 407 005 4505 DIODE DS442X	
D5221 407 013 1701 DIODE 1S1588 OR 407 013 7109 DIODE 1S2473	
OR	
D5310 407 012 5809 DIODE 1SS176	
OR 407 012 4406 DIODE 1SS133	
OR 407 007 9904 DIODE GMA01	
D5311 407 012 5809 DIODE 1SS176	
OR 407 012 4406 DIODE 1SS133	
OR	
D5320 407 013 1701 DIODE 1S1588 OR 407 013 7109 DIODE 1S2473	
OR 407 005 4505 DIODE DS442X	
D5321 407 013 1701 DIODE 1S1588	1
OR 407 013 7109 DIODE 152473	ĺ
OR 407 005 4505 DIODE DS442X	ļ
D5322 407 013 1701 DIODE 1S1588	
OR 407 013 7109 DIODE 152473	i
OR	
D5323 407 013 1701 DIODE 1S1588 OR 407 013 7109 DIODE 1S2473	ļ
OR 407 075 7109 D100E 152475	ĺ
D5324 407 012 5809 DIODE 1SS176	
OR 407 012 4406 DIODE 1SS133	
OR 407 007 9904 DIODE GMA01	
D5325 407 012 5809 DIODE 1SS176	
OR 407 012 4406 DIODE 1SS133	
OR 407 007 9904 DIODE 6MA01 D5330 407 012 5809 DIODE 155176	
OR 407 012 4406 DIDDE 1SS133 OR 407 007 9904 DIDDE 6MA01	

REF.NO.	PART NO.	DESCRIPTION
D5331	407 012 5809	DIODE 1SS176
OR OR	407 012 4406	DIODE 1SS133
OR D5332	407 007 9904 407 012 5809	DIODE GMA01 DIODE 1SS176
OR	407 012 4406	DIODE 155173
OR	407 007 9904	DIODE GMA01
D5350	408 013 3207	LED SLZ-381C-09-A.FOW
OR	408 013 3306	LED SLZ-381C-09-B, FOW
D5351	408 013 3207	LED SLZ-381C-09-A.REV
OR 05352	408 013 3306 408 013 2903	LED SLZ-381C-09-B.REV LED SLZ-181C-09-A.REC
OR	408 013 3009	LED SLZ-181C-09-B.REC
D5353	408 013 2903	LED SLZ-181C-09-A.B
OR	408 013 3009	LED SLZ-181C-09-B.B
05354	408 013 2903	LED SLZ-181C-09-A.A
OR D5410	408 013 3009 408 013 2903	LED SLZ-181C-09-B.A
OR	408 013 2903	LED SLZ-181C-09-A, TAPE LED SLZ-181C-09-B, TAPE
D5411	408 013 2903	LED SLZ-181C-09-A.CD
OR	408 013 3009	LED SLZ-181C-09-B.CD
D5412	408 013 2903	LED SLZ-181C-09-A,PHONO
OR DE / 17	408 013 3009	LED SLZ-181C-09-B,PHONO
D5413 OR	408 013 2903 408 013 3009	LED SLZ-181C-09-A.TUNER LED SLZ-181C-09-B.TUNER
D5414	408 013 2903	LED SLZ-181C-09-A.AUX 1
OR	408 013 3009	LED SLZ-181C-09-B.AUX 1
D5415	407 012 5809	DIODE 1SS176
OR	407 012 4406	DIODE 188133
OR DE(1)	407 007 9904	DIODE GMAO1
D5416 OR	407 012 5809 407 012 4406	DIODE 1SS176 DIODE 1SS133
OR	407 007 9904	DIODE GMAO1
D5420	407 053 6704	ZENER DIODE MTZ5.68
OR	407 051 6904	ZENER DIODE GZS5.6Y
FL500 IC410	614 226 7561 409 020 0906	FLUORESCENT TUBE IC LB1403N
OR I	409 003 0008	IC BA6124
IC420	409 020 0906	IC LB1403N
OR	409 003 0008	IC BA6124
IC450	409 218 4303	IC RC4558S
OR IC457	409 018 4909 409 218 4303	IC LA6458S IC RC4558S
OR	409 018 4909	IC LA6458S
IC458	409 053 0409	IC TC9153AP
IC459	409 020 2900	IC LB1433N
IC500	410 118 3105	IC HD404729A98S
L5020 Q4670	614 028 4256 405 078 3005	FILTER,100UH TR BA1L4M
OR	405 018 2501	TR 2SC3399
OR	405 000 6104	TR DTC144ES
OR	405 001 0408	TR RN1204
Q4671	405 078 3005	TR BA1L4M
OR .	405 018 2501 405 000 6104	TR 2SC3399 TR DTC144ES
OR	405 001 0408	TR RN1204
Q4672	405 078 3005	TR BA1L4M
OR	405 018 2501	TR 2SC3399
OR OR	405 000 6104	TR DTC144ES
OR Q4673	405 001 0408 405 078 3005	TR RN1204 TR BA1L4M
OR	405 018 2501	TR 2SC3399
OR	405 000 6104	TR DTC144ES
OR	405 001 0408	TR RN1204
Q5010	405 091 4201	TR BN1L4Z
OR OR	405 004 0504 405 075 7907	TR 2SA1509 TR DTA144TS
Q5011	405 057 7604	TR 2SA1175-FF
OR	405 002 1107	TR 2SA1048-GR

PARTS LIST-

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REF.NO.	PART NO.	DESCRIPTION	REF.NO.	PART NO.	DESC
Q5011	405 002 5402	TR 2SA1175-EF	Q5350	405 006 1806	TR 2SA933S-R
OR	405 003 5302	TR 2SA1317-T	OR	405 006 1905	TR 2SA933S-S
OR	405 003 5401	TR 2SA1317-U	Q5351	405 057 7604	TR 2SA1175-FF
OR	405 006 1806	TR 2SA933S-R	OR	405 002 1107	TR 2SA1048-GR
OR	405 006 1905	TR 2SA933S-S	OR	405 002 5402	TR 2SA1175-EF
Q5025	405 020 7402	TR 2SC945A-P	OR	405 003 5302	TR 2SA1317-T
OR	405 011 7404	TR 2SC1740-R	OR	405 003 5401	TR 2SA1317-U
OR	405 011 7503	TR 2SC1740-S	OR	405 006 1806	TR 2SA933S-R
OR	405 012 2002	TR 2SC1815-GR	OR	405 006 1905	TR 2SA933S-S
OR	405 018 0101	TR 2SC3331-T	Q5352	405 057 7604	TR 2SA1175-FF TR 2SA1048-GR
OR	405 018 0200	TR 2SC3331-U	OR	405 002 1107 405 002 5402	TR 2SA1175-EF
OR	405 020 7204	TR 2SC945A-K	OR OR	405 002 5402	TR 2SA1317-T
Q5030	405 091 4201	TR BN1L4Z	OR	405 003 5401	TR 2SA1317-U
OR	405 004 0504	TR 2SA1509	OR	405 006 1806	TR 2SA933S-R
0R	405 075 7907	TR DTA144TS	OR	405 006 1905	TR 2SA933S-S
Q5220	405 091 4201 405 004 0504	TR BN1L4Z TR 2SA1509	Q5353	405 107 8704	TR BA1A4Z
OR OR	405 075 7907	TR DTA144TS	OR	405 037 0205	TR 2SC3860
Q5221	405 091 4201	TR BN1L4Z	OR	405 000 3400	TR DTC114TS
OR	405 004 0504	TR 2SA1509	OR	405 035 1600	TR RN1211
OR	405 075 7907	TR DTA144TS	Q5354	405 107 8803	TR BN1A4Z
Q5310	405 091 4201	TR BN1L4Z	OR	405 036 2903	TR 2SA1497
OR	405 004 0504	TR 2SA1509	OR	405 075 7600	TR DTA114TS
OR	405 075 7907	TR DTA144TS	OR	405 107 8605	TR RN2211
Q5311	405 091 4201	TR BN1L4Z	Q5410	405 078 3005	TR BA1L4M
OR	405 004 0504	TR 2SA1509	OR	405 018 2501	TR 2SC3399
OR	405 075 7907	TR DTA144TS	OR	405 000 6104	TR DTC144ES
Q5320	405 091 4201	TR BN1L4Z	OR	405 001 0408	TR RN1204
OR	405 004 0504	TR 2SA1509	Q5411	405 078 2909	TR BA1A4M
OR	405 075 7907	TR DTA144TS	OR	405 018 2808	TR 25C3402
Q5321	405 091 4201	TR BN1L4Z	OR	405 000 3103	TR DTC114ES TR RN1202
OR	405 004 0504	TR 2SA1509	OR 05/12	405 001 0200 405 078 3005	TR BA1L4M
OR	405 075 7907	TR DTA144TS	Q5412 OR	405 018 2501	TR 2SC3399
Q5322	405 091 4201	TR BN1L4Z	OR OR	405 000 6104	TR DTC144ES
OR OR	405 004 0504	TR 2SA1509 TR DTA144TS	OR	405 001 0408	TR RN1204
OR Q5323	405 075 7907 405 091 4201	TR BN1L4Z	Q5413	405 057 7802	TR 2SC2785-FF
0R	405 004 0504	TR 2SA1509	OR	405 011 8500	TR 2SC1740S-R
OR OR	405 075 7907	TR DTA144TS	OR	405 011 8609	TR 2SC1740S-S
Q5324	405 091 4201	TR BN1L4Z	OR	405 014 5209	TR 2SC2458-GR
OR	405 004 0504	TR 2SA1509	OR	405 015 6304	TR 2SC2785-EF
OR	405 075 7907	TR DTA144TS	OR	405 017 9600	TR 2SC3330-T
Q5325	405 091 4201	TR BN1L4Z	OR	405 017 9709	TR 2SC3330-U
OR	405 004 0504	TR 2SA1509	Q5414	405 057 7604	TR 2SA1175-FF
OR	405 075 7907	TR DTA144TS	OR	405 002 1107	TR 2SA1048-GR
Q5330	405 105 7204	TR BA1L4Z	OR	405 002 5402	TR 2SA1175-EF
OR	405 037 0601	TR 2SC3899	OR	405 003 5302	TR 2SA1317-T
OR	405 075 8409	TR DTC144TS	OR OR	405 003 5401	TR 2SA1317-U TR 2SA933S-R
Q5331	405 105 7204	TR BA1L4Z	OR OR	405 006 1806 405 006 1905	TR 2SA933S-S
OR	405 037 0601	TR 2SC3899	0R Q5415	405 078 2909	TR BA1A4M
OR OF7(0	405 075 8409	TR DTC144TS TR BA1A4M	OR	405 018 2808	TR 2SC3402
Q5340	405 078 2909		OR	405 000 3103	TR DTC114ES
OR	405 018 2808 405 000 3103	TR 2SC3402 TR DTC114ES	OR	405 001 0200	TR RN1202
OR OR	405 000 3103	TR RN1202	Q5420	405 020 7402	TR 2SC945A-P
Q5341	405 078 2909	TR BA1A4M	OR	405 011 7404	TR 2SC1740-R
OR	405 018 2808	TR 2SC3402	OR	405 011 7503	TR 2SC1740-S
OR	405 000 3103	TR DTC114ES	OR	405 012 2002	TR 2SC1815-GR
OR	405 001 0200	TR RN1202	OR	405 018 0101	TR 2SC3331-T
Q5342	405 078 2909	TR BA1A4M	OR	405 018 0200	TR 2SC3331-U
OR	405 018 2808	TR 2SC3402	OR	405 020 7204	TR 2SC945A-K
OR	405 000 3103	TR DTC114ES	Q5440	405 057 7802	TR 2SC2785
OR	405 001 0200	TR RN1202	OR	405 011 8500	TR 2SC1740S-R
Q5350	405 057 7604	TR 2SA1175-FF	OR	405 011 8609	TR 2SC1740S-S
OR	405 002 1107	TR 2SA1048-GR	OR	405 014 5209	TR 2SC2458-GR
OR	405 002 5402	TR 2SA1175-EF	OR	405 015 6304	TR 2SC2785-EF
OR	405 003 5302	TR 2SA1317-T	OR OR	405 017 9600	TR 2SC3330-T
OR	405 003 5401	TR 2SA1317-U	OR	405 017 9709	TR 2SC3330-U
			- 16 -		

REF.NO.	PART NO.	DESCRIPTION
Q5350	405 006 1806	TR 2SA933S-R
OR	405 006 1905	TR 2SA933S-S
Q5351 OR	405 057 7604 405 002 1107	TR 2SA1175-FF TR 2SA1048-GR
OR	405 002 5402	TR 2SA1175-EF
OR	405 003 5302	TR 2SA1317-T
OR	405 003 5401	TR 2SA1317-U
OR	405 006 1806	TR 2SA933S-R
OR	405 006 1905	TR 2SA933S-S
Q5352	405 057 7604	TR 2SA1175-FF TR 2SA1048-GR
OR OR	405 002 1107 405 002 5402	TR 2SA1175-EF
OR OR	405 002 5402	TR 2SA1317-T
OR	405 003 5401	TR 2SA1317-U
OR	405 006 1806	TR 2SA933S-R
OR	405 006 1905	TR 2SA933S-S
Q5353	405 107 8704	TR BA1A4Z
OR	405 037 0205 405 000 3400	TR 2SC3860 TR DTC114TS
OR OR	405 035 1600	TR RN1211
Q5354	405 107 8803	TR BN1A4Z
OR	405 036 2903	TR 2SA1497
OR	405 075 7600	TR DTA114TS
OR	405 107 8605	TR RN2211
Q5410	405 078 3005	TR BA1L4M
OR	405 018 2501 405 000 6104	TR 2SC3399 TR DTC144ES
OR OR	405 000 6104	TR RN1204
Q5411	405 078 2909	TR BA1A4M
OR	405 018 2808	TR 2SC3402
OR	405 000 3103	TR DTC114ES
OR	405 001 0200	TR RN1202
Q5412	405 078 3005	TR BA1L4M TR 2SC3399
OR OR	405 018 2501 405 000 6104	TR DTC144ES
OR	405 001 0408	TR RN1204
Q5413	405 057 7802	TR 2SC2785-FF
OR	405 011 8500	TR 2SC1740S-R
OR	405 011 8609	TR 2SC1740S-S
OR	405 014 5209	TR 2SC2458-GR
OR	405 015 6304 405 017 9600	TR 2SC2785-EF TR 2SC3330-T
OR OR	405 017 9709	TR 2SC3330-U
Q5414	405 057 7604	TR 2SA1175-FF
OR	405 002 1107	TR 2SA1048-GR
OR	405 002 5402	TR 2SA1175-EF
OR	405 003 5302	TR 2SA1317-T
OR	405 003 5401	TR 2SA1317-U TR 2SA933S-R
OR OR	405 006 1806 405 006 1905	TR 2SA933S-S
Q5415	405 078 2909	TR BA1A4M
OR	405 018 2808	TR 2SC3402
OR	405 000 3103	TR DTC114ES
OR	405 001 0200	TR RN1202
Q5420	405 020 7402	TR 2SC945A-P
OR	405 011 7404	TR 2SC1740-R TR 2SC1740-S
OR OR	405 011 7503 405 012 2002	TR 2SC1740-3
OR	405 018 0101	TR 2SC3331-T
OR	405 018 0200	TR 2SC3331-U
OR	405 020 7204	TR 2SC945A-K
Q5440	405 057 7802	TR 2SC2785
OR OR	405 011 8500	TR 2SC1740S-R
OR OR	405 011 8609 405 014 5209	TR 2SC1740S-S TR 2SC2458-GR
OR OR	405 014 3209	TR 2SC2785-EF
OR	405 017 9600	TR 2SC3330-T
OR	405 017 9709	TR 2SC3330-U

PARTS LIST

REF.NO.	PART NO.	DESCRIPTION
Q5441	405 057 7802	TR 2SC2785-FF
OR	405 011 8500	TR 2SC1740S-R
OR	405 011 8609	TR 2SC1740S-S
OR	405 014 5209	TR 2SC2458-GR
OR	405 015 6304	TR 2SC2785-EF
OR	405 017 9600	TR 2SC3330-T
OR	405 017 9709	TR 2SC3330-U
R5025	401 168 9902	CARBON 100 JB 1/2W
R5421	401 168 9902	CARBON 100 JB 1/2W
RA500	614 209 3689	RESISTOR 10K X8
OR	614 217 1332	RESISTOR 10K X8
\$4670	614 220 5648	SWITCH, TACT, VOL-UP
\$4671	614 220 5648	SWITCH, TACT, VOL-DOWN
\$5000	614 217 8935	SWITCH, OPTO CONNECTOR, REMOCON
		RECEIVER
\$5050	614 220 5631	SWITCH, TACT, TIMER
\$5051	614 220 5631	SWITCH, TACT, WACK UP
\$5052	614 220 5631	SWITCH.TACT.SLEEP
\$5053	614 220 5631	SWITCH, TACT, CLOCK
\$5054	614 220 5631	SWITCH, TACT, POWER
\$5200	614 220 5631	SWITCH, TACT, TUN-UP
\$5201	614 220 5631	SWITCH, TACT, TUN-DOWN
\$5202	614 220 5631	SWITCH, TACT, PST-UP
\$5203	614 220 5631	SWITCH, TACT, PST-DOWN
\$5204	614 220 5631	SWITCH, TACT, MEMORY
\$5205	614 220 5631	SWITCH, TACT, CLEAR
\$5206	614 220 5631	SWITCH, TACT, BAND
\$5207	614 220 5631	SWITCH, TACT, MODE
\$5300	614 220 5631	SWITCH, TACT, STOP
\$5301	614 220 5631	SWITCH, TACT, FOW
\$5302	614 220 5631	SWITCH.TACT.REV
\$5303	614 220 5631	SWITCH, TACT, REC
\$5304	614 220 5631	SWITCH, TACT, A/B
\$5305	614 220 5631	SWITCH, TACT, SKIP FOW
\$5306	614 220 5631	SWITCH, TACT, SKIP REV
\$5307	614 220 5631	SWITCH, TACT, MUTE
\$5308	614 220 5631	SWITCH, TACT, HI DUB
\$5310	614 227 4323	SWITCH, SLIDE, REV MODE
\$5315	614 227 4316	SWITCH, SLIDE, DOLBY
\$5400	614 220 5631	SWITCH, TACT, TUNER
\$5401	614 -220 5631	SWITCH, TACT, CD
\$5402	614 220 5631	SWITCH,TACT,TAPE SWITCH,TACT,PHONO
\$5403	614 220 5631 614 220 5631	
\$5404		SWITCH,TACT,AUX 1 V.R,SLIDE,100K(W),BALANCE
VR450	614 229 4307 614 229 4291	V.R,SLIDE,TOUK(W),BALANCE V.R,SLIDE,50K(B)X2,GEQUALIZER,
VR451	014 227 4271	100HZ
VR452	614 229 4291	V.R,SLIDE,50K(B)X2,GEQUALIZER,
,	J., 22, 12,1	300HZ
VR453	614 229 4291	V.R.SLIDE,50K(B)X2,GEQUALIZER,
		1KHZ
VR454	614 229 4291	V.R,SLIDE,50K(B)X2,GEQUALIZER,
lun.cc	/1/ 220 /201	3KHZ
VR455	614 229 4291	V.R,SLIDE,50K(B)X2,GEQUALIZER,
X5000	614 229 3300	12KHZ RESONATOR,XTAL,4.19MHZ
7,5000	014 227 3300	nessimilar in think

TAPE I	DECK	AMPLI	FIER	P.C.	.Bōard	ASSY

REF.	.NO. F	PART I	NO.	DESCRIPTION
77	61	4 235	9440	ASSY,PCB,DECK
C33	303 40	3 058	2406	POLYESTER 0.015U J 50V
C33	304 40	3 058	1102	POLYESTER 1500P K 50V
CN:	301 61	4 017	2591	PLUG,8P,TO TUN/PRE-AMP
CN:	302 61	4 017	2591	PLUG.8P.TO FRONT
CN:	303 61	4 016	4084	PLUG, 2P, TEST PIN, HIGH SPEED
CN:	331 61	4 017	2539	PLUG,2P,E HEAD

REF.NO.	PART NO.	DESCRIPTION
CN371	614 017 2553	PLUG.4P.P HEAD
CN372	614 017 2560	PLUG, SP, R/P HEAD
CN373	614 035 5949	SOCKET.3P.TEST PIN.TAPE OUT
D3101	407 007 9904	DIODE GMA01 DIODE 1SS133
0R	407 012 4406 407 007 9904	DIODE GMAO1
D3102 OR	407 012 4406	DIODE 1SS133
D3103	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
D3104	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
D3105	407 005 4505	DIODE DS442X
OR	407 013 7109	DIODE 1S2473
D3106	407 007 9904	DIODE GMA01
OR	407 012 4406	DIODE 1SS133
HS301	614 211 3592	HEAT SINK, BIAS LEAK
IC351	409 119 9803	IC CXA1101P
IC370	409 121 8702	IC LA3246
IC371	409 207 1900	IC MLC4066B
OR	409 003 9506	IC BU4066B
OR	409 051 3501	IC TC4066BP
OR	409 059 2605	IC UPD4066BC
IC374	409 214 1900 409 145 8405	IC CXA1298AP IC UPC1330HA
IC375	614 221 8280	TRANS,OSC
L3300 L3501	614 029 3807	MX COIL
L3551	614 029 3807	MX COIL
L3700	614 028 4379	FILTER
L3731	614 210 3685	INDUCTOR, FERITE
L3750	614 029 3142	MX COIL
L3800	614 028 4379	FILTER
L3831	614 210 3685	INDUCTOR, FERITE
L3850	614 029 3142	MX COIL
Q3101	405 000 6104	TR DTC144ES
OR	405 078 3005	TR BA1L4M
OR	405 103 9606	TR AA1L4M
OR	405 001 0408	TR RN1204
Q3102	405 000 2205	TR DTA144ES
OR	405 078 2107	TR BN1L4M
OR I	405 103 9705	TR AN1L4M
OR Q3103	405 001 1306 405 000 6104	TR RN2204 TR DTC144ES
0R	405 078 3005	TR BA1L4M
OR	405 103 9606	TR AA1L4M
OR OR	405 001 0408	TR RN1204
Q3104	405 075 8409	TR DTC144TS
OR	405 105 7204	TR BA1L4Z
Q3105	405 000 6104	TR DTC144ES
OR	405 078 3005	TR BA1L4M
OR	405 103 9606	TR AA1L4M
OR	405 001 0408	TR RN1204
Q3106	405 000 6104	TR DTC144ES
OR	405 078 3005	TR BA1L4M
OR	405 103 9606	TR AA1L4M
OR	405 001 0408	TR RN1204
Q3107	405 000 2205	TR DTA144ES
OR OR	405 078 2107	TR BN1L4M
OR OR	405 103 9705	TR AN1L4M
OR Q3108	405 001 1306	TR RN2204
	405 000 6104 405 078 3005	TR DTC144ES
OR OR	405 103 9606	TR BA1L4M TR AA1L4M
OR OR	405 001 0408	TR RN1204
Q3109	405 075 8409	TR DTC144TS
OR	405 105 7204	TR BA1L4Z
Q3160	405 000 6104	TR DTC144ES
OR	405 078 3005	TR BA1L4M

PARTS LIST-

	·	,
REF.NO.	PART NO.	DESCRIPTION
Q3160	405 001 0408	TR RN1204
Q3161	405 000 2205	TR DTA144ES
OR	405 078 2107	TR BN1L4M
OR	405 103 9705	TR AN1L4M
OR	405 001 1306	TR RN2204
Q3300	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
OR	405 011 7503	TR 2SC1740-S
Q3301	405 011 1907	TR 2SC1627-Y
Q3302	405 001 7001	TR 2SA1015-GR
OR	405 005 2002	TR 2SA733-P
Q3303	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
OR	405 011 8609	TR 2SC1740S-S
Q3730	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
OR	405 011 8609	TR 2SC1740S-S
Q3830	405 012 2002	TR 2SC1815-GR
OR	405 020 7204	TR 2SC945A-K
OR	405 011 8609	TR 2SC1740S-S
SVR30	614 003 6190	SEMI-FIXED V.R,20K(B)
SVR31	614 003 6190	SEMI-FIXED V.R,20K(B)
SVR32	614 003 6190	SEMI-FIXED V.R.20K(B)
SVR33	614 003 6190	SEMI-FIXED V.R.20K(B)
SVR34	614 003 6183	SEMI-FIXED V.R.10K(B)
SVR35	614 003 6183	SEMI-FIXED V.R.10K(B)
SVR36	614 003 6213	SEMI-FIXED V.R,50K(B)
SVR37	614 003 6213	SEMI-FIXED V.R.50K(B)

CD	MATE	D .	^	DEADD	ACCV
LU	MAIN	r.	L.	.Bōard	4991

REF.NO. PART NO. DESCRIPTION 78	OD THELET	-C-DURIND ROOT	
C1603		PART NO.	DESCRIPTION
C1604	78	614 236 0545	ASSY,PCB,CD MAIN
CN101 614 017 2577 PLUG.6P.PICK SENSOR CN102 614 228 0911 PLUG.8P.PICK ACTUATOR CN103 614 017 2553 PLUG.4P.SLED/SPINDLE MOTOR CN104 614 017 2546 PLUG.3P.AC GND AC CN105 614 017 2546 PLUG.3P.AC GND AC CN106 614 017 2546 PLUG.3P.LINE OUT CN107 614 208 2355 SOCKET.8P(B TO B).TO CD FRONT CN108 614 017 2560 PLUG.5P.TO TUN/PRE-AMP CN109 614 017 2560 PLUG.5P.TO TUN/PRE-AMP CN110 614 016 3865 PLUG.4P.TP1~4 D102 407 003 4507 DIODE DAP202K D103 407 003 4507 DIODE DAP202K D111 A407 004 9105 DIODE DSF10C OR A407 012 3300 DIODE 1SR35-200A D112 A407 004 9105 DIODE DSF10C OR A407 012 3300 DIODE SF10C OR A407 012 3300 DIODE DSF10C OR A407 012 3	C1603	403 043 3100	
CN102 614 228 0911 PLUG.8P.PICK ACTUATOR CN103 614 017 2553 PLUG.4P.SLED/SPINDLE MOTOR CN104 614 017 2546 PLUG.3P.MECHA SW CN105 614 017 2546 PLUG.3P.AC GND AC CN106 614 017 2546 PLUG.3P.LINE OUT CN107 614 208 2355 SOCKET.8P(B TO B).TO CD FRONT CN108 614 208 2362 SOCKET.9P(B TO B).TO CD FRONT CN109 614 017 2560 PLUG.5P.TO TUN/PRE-AMP CN110 614 016 3865 PLUG.4P.TP1~4 D102 407 003 4507 DIODE DAP202K D103 407 003 4507 DIODE DAP202K D111	C1604	403 042 6205	ELECT 1000U M 16V
CN103 614 017 2553 PLUG.4P,SLED/SPINDLE MOTOR CN104 614 017 2546 PLUG.3P,MECHA SW CN105 614 017 2546 PLUG.3P,AC GND AC CN106 614 017 2546 PLUG.3P,LINE OUT CN107 614 208 2355 SOCKET,8P(B TO B),TO CD FRONT CN108 614 017 2560 PLUG.5P,TO TUN/PRE-AMP CN110 614 016 3865 PLUG.4P,TP1~4 D102 407 003 4507 DIODE DAP202K D103 407 003 4507 DIODE DAP202K D111 A407 004 9105 DIODE DSF10C OR A407 012 3300 DIODE SF10C OR A407 012 3300 DIODE SF10C OR A407 012 3300 DIODE DSF10C OR A407 012 3500 DIODE	CN101	614 017 2577	. 200, 01 11 2011
CN104 614 017 2546 PLUG.3P.MECHA SW CN105 614 017 2546 PLUG.3P.AC GND AC CN106 614 017 2546 PLUG.3P.AC GND AC CN107 614 208 2355 SOCKET.8P(B TO B).TO CD FRONT CN108 614 017 2560 PLUG.5P.TO TUN/PRE-AMP CN110 614 016 3865 PLUG.4P.TP1~4 D102 407 003 4507 DIODE DAP202K D111	CN102		
CN105 614 017 2546 PLUG.3P.AC GND AC CN106 614 017 2546 PLUG.3P.LINE OUT CN107 614 208 2355 SOCKET.8P(B TO B).TO CD FRONT CN108 614 017 2560 PLUG.5P.TO TUN/PRE-AMP CN110 614 016 3865 PLUG.4P.TP1~4 D102 407 003 4507 DIODE DAP202K D111	CN103		
CN106 614 017 2546 PLUG.3P.LINE OUT CN107 614 208 2355 SOCKET.8P(B TO B).TO CD FRONT CN108 614 017 2560 SOCKET.9P(B TO B).TO CD FRONT CN109 614 017 2560 PLUG.5P.TO TUN/PRE-AMP CN110 614 016 3865 PLUG.4P.TP1~4 D102 407 003 4507 DIODE DAP202K D103 407 003 4507 DIODE DAP202K D111	CN104	1	
CN107 614 208 2355 SOCKET,8P(B TO B),TO CD FRONT CN108 614 208 2362 SOCKET,9P(B TO B),TO CD FRONT CN109 614 017 2560 PLUG,5P,TO TUN/PRE-AMP PLUG,4P,TP1~4 DIODE DAP202K DIODE DAP202K DIODE DAP202K DIODE DAP202K DIODE DSF10C DIODE DAP202K IC LA9210M,SSP IC LA6510,PICK ACT DRV IC LA651	CN105		
CN108 614 208 2362 SDCKET,9P(B TO B).TO CD FRONT CN109 614 017 2560 PLUG.5P.TO TUN/PRE-AMP PLUG.4P.TP1-4 DIODE DAP202K DIODE DAP202K DIODE DAP202K DIODE DAP202K DIODE DSF10C DIODE DAP202K IC LA9210M.SSP IC LA6510.PICK ACT DRV IC LA6510.PICK A	1		
CN109 614 017 2560 PLUG.5P,TO TUN/PRE-AMP CN110 614 016 3865 PLUG.4P,TP1~4 D102 407 003 4507 DIODE DAP202K D103 407 003 4507 DIODE DAP202K D111	1		
CN110 D102 D103 D103 D103 D103 D103 D104 D105 D106 D106 D106 D107 D111 D111 D111 D111 D111 D111 D111	1		
D102			
D103	1		
D111	1		
OR A407 012 3300 DIODE 1SR35-200A D112 A407 004 9105 DIODE DISF10C OR A407 012 3300 DIODE DISR35-200A D113 A407 004 9105 DIODE DISF10C OR A407 012 3300 DIODE DISF10C OR A407 012 3300 DIODE DISF3-200A D131 407 003 4507 DIODE DISR35-200A D131 407 003 4507 DIODE DAP202K IC101 409 245 4802 IC LA9210M,SSP IC102 A409 018 5500 IC LA6510,PICK ACT DRV IC103 A409 018 5500 IC LA6510,MOTOR DRV IC104 409 248 8708 IC LC7866E,DSP IC105 409 206 9006 IC LC97000P-28	1		
D112			
OR			
D113	1		
OR A407 012 3300 DIODE 1SR35-200A D114 A407 004 9105 DIODE DISF10C OR A407 012 3300 DIODE DISF10C D131 407 003 4507 DIODE DAP202K IC101 409 245 4802 IC LA9210M,SSP IC102 A409 018 5500 IC LA6510,PICK ACT DRV IC103 A409 018 5500 IC LA6510,MOTOR DRV IC104 409 248 8708 IC LC7866E,DSP IC105 409 206 9006 IC LC97000P-288,8FS,18BIT DAC IC106 409 241 5506 IC XRA15218F,AUDIO BUFFER IC107 410 122 3504 IC CXP5046H-259S,MPU IC108 A409 195 4105 IC M5294P,REGURETOR L1701 A614 028 4256 FILTER,FOR LED Q101 405 002 0308 IR 2SA1037K-R <td>1</td> <td></td> <td></td>	1		
D114	1		
OR	1		
D131			
IC101	1		
IC102			
IC103 A409 018 5500 IC LA6510,MOTOR DRV IC104 409 248 8708 IC LC7866E,DSP IC105 409 206 9006 IC LC97000P-288,8FS,18BIT DAC IC106 409 241 5506 IC XRA15218F,AUDIO BUFFER IC107 410 122 3504 IC CXP5046H-259S,MPU IC108 A409 195 4105 IC M5294P,REGURETOR L1701 A614 028 4256 FILTER,FOR LED Q101 405 002 0308 TR 2SA1037K-R	1		
IC104 409 248 8708 IC LC7866E,DSP IC105 409 206 9006 IC LC97000P-288.8FS.18BIT DAC IC106 409 241 5506 IC XRA15218F,AUDIO BUFFER IC107 410 122 3504 IC CXP5046H-259S.MPU IC108 A409 195 4105 IC M5294P.REGURETOR L1701 A614 028 4256 FILTER.FOR LED Q101 405 002 0308 TR 2SA1037K-R			
IC105 409 206 9006 IC LC97000P-288.8FS.18BIT DAC IC106 409 241 5506 IC XRA15218F,AUDIO BUFFER IC107 410 122 3504 IC CXP5046H-259S.MPU IC108 A409 195 4105 IC M5294P.REGURETOR L1701 A614 028 4256 FILTER.FOR LED Q101 405 002 0308 TR 2SA1037K-R			
IC106 409 241 5506 IC XRA15218F,AUDIO BUFFER IC107 410 122 3504 IC CXP5046H-259S,MPU IC108 A409 195 4105 IC M5294P,REGURETOR L1701 A614 028 4256 FILTER,FOR LED Q101 405 002 0308 TR 2SA1037K-R			
IC107 410 122 3504 IC CXP5046H-259S.MPU IC108			
IC108	1		
L1701	1		
Q101 405 002 0308 TR 2SA1037K-R	1		
	1		
1 0102 405 014: 4500 TP 2502412K-P	1		
4106 403 014 4307 IN 6366416N-N	Q102	405 014' 4509	TR 2SC2412K-R

REF.NO.	PART NO.	DESCRIPTION
Q103	405 000 4100	TR DTC124EK
Q105	405 014 4509	TR 2SC2412K-R
Q111	405 000 0409	TR DTA114EK
Q112	405 029 3207	TR DTC114TK
Q118	405 014 4509	TR 2SC2412K-R
R1901	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R1951	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1952	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1953	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1954	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1955	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1956	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1957	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1958	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1961	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1962	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1963	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1964	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R1965	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
SVR11	614 223 1906	POTENTIOMETER, 10K(B) T.BALANCE
X101	614 225 6633	RESONATOR, CERAMIC, 16.9344MHZ
X102	614 215 5523	RESONATOR, CERAMIC, 4.19MHZ
OR	614 215 5561	RESONATOR, CERAMIC, 4.19MHZ
1		

CD FRONT P.C.BOARD ASSY

REF.NO.	PART NO.	DESCRIPTION			
79	614 236 0552	ASSY,PCB,CD SW			
CN117	614 208 2263	PLUG.8P(B TO B),TO CD MAIN			
CN118	614 208 2270	PLUG,9P(B TO B),TO CD MAIN			
D121	407 018 9405	LED SL-1283,2 DIGIT			
D122	407 003 4507	DIODE DAP202K			
D123	407 003 4507	DIODE DAP202K			
D124	408 013 3207	LED SLZ-381C-09-A,PLAY(GR)			
OR	408 013 3306	LED SLZ-381C-09-B,PLAY(GR)			
D125	408 013 2903	LED SLZ-181C-09-A, REPEAT			
OR	408 013 3009	LED SLZ-181C-09-B.REPEAT			
D126	408 013 2903	LED SLZ-181C-09-A.PROGRAM			
OR	408 013 3009	LED SLZ-181C-09-B,PROGRAM			
D127	408 013 3207	LED SLZ-381C-09-A,RANDOM(GR)			
OR :	408 013 3306	LED SLZ-381C-09-B,RANDOM(GR)			
D128	408 013 2903	LED SLZ-181C-09-A,EDIT			
OR	408 013 3009	LED SLZ-181C-09-B,EDIT			
D129	408 013 2903	LED SLZ-181C-09-A,SIDE-A			
OR	408 013 3009	LED SLZ-181C-09-B,SIDE-A			
D130	408 013 2903	LED SLZ-181C-09-A,SIDE-B			
OR	408 013 3009	LED SLZ-181C-09-B,SIDE-B			
Q115	405 108 4507	TR DTA123YK			
Q116	405 108 4507	TR DTA123YK			
Q117	405 108 4507	TR DTA123YK			
\$1701	614 220 5631	SWITCH, TACT, MEMORY			
\$1702	614 220 5631	SWITCH, TACT, PLAY/PAUSE			
\$1703	614 220 5631	SWITCH.TACT.OPEN/CLOSE			
\$1704	614 220 5631	SWITCH, TACT, REPEAT			
\$1705	614 220 5631	SWITCH, TACT, BACK			
\$1706	614 220 5631	SWITCH.TACT.FWD			
\$1707	614 220 5631	SWITCH, TACT, STOP			
\$1708	614 220 5631	SWITCH, TACT, EDIT			

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PARTS LIST (TAPE MECHANISM)-

TAPE DECK MECHANISM(TM-SF3J/SP)

REF.NO.	PART NO.	DESCRIPTION
M1	614 219 9657	ASSY, CHASSIS, DECK MECHANISM
M2	614 195 9139	SPRING PLATE, CASETTE PRESSURE
M3	614 219 9671	ASSY, FLYWHEEL, REV
M4	614 219 9688	ASSY, FLYWHEEL, NOR
- 1		SPECIAL WASHER, REV FW FIX
M5	412 034 4709	
M6	412 014 3005	SPECIAL WASHER, NOR FW FIX
M7	412 029 8200	SPECIAL WASHER, REV OIL PROOF
M8	412 012 7005	SPECIAL WASHER, NOR OIL PROOF
M9	614 219 9596	COMMUTATE MOTOR ASSY, MECHA DRIVE
M10	614 223 8677	BRACKET-E,MOTOR
M11	614 219 9954	BELT, SQUARE, A-MECHA DRIV
M12	614 219 9961	BELT, SQUARE, B-MECHA DRIV
M13	614 195 8644	PULLEY, DUMMY
M14	412 022 0607	SPECIAL WASHER, D. PULLEY FIX
M15	614 220 0001	LEVER, PLAY GR
M16	614 220 1657	ASSY, GEAR, PLAY CLUTCH
M17	614 220 0261	PIPE, PLAY SLIP FIX
M18	614 224 5293	CUSHION, BELT TUTCH(B)
M19	614 224 5309	CUSHION, BELT TUTCH(A)
M20	614 236 5397	SPRING, TENS, PLAY LEVER RESET
M21	614 219 9817	GEAR, RELAY FIXED
M22	614 220 0261	PIPE,GEAR FIX
M23	614 220 1664	ASSY, GEAR, TAKE UP MOVE
M24	614 220 0025	LEVER, TAKE UP MOVE B
M25	614 220 1268	SPRING, WIRE, B MECH REEL CH CLIC
M26	614 219 9848	GEAR, REEL RELAY
M27	614 219 9831	GEAR, REEL
M28	614 219 9886	REEL, RIGHT
M29	614 219 9893	REEL,LEFT
- 1		
M30	614 220 1251	SPRING, COMP, BACK TENS LEFT REEL
M31	614 219 9695	ASSY, LEVER, PINCH LEFT
M32	614 219 9701	ASSY, LEVER, PINCH RIGHT
M33	614 229 7520	SPRING, WIRE, PINCH LEFT
M34	614 220 1275	SPRING, WIRE, PINCH RIGHT
M35	614 220 0070	LEVER, BRAKE R
M36	614 220 0087	LEVER, BRAKE L
M37	614 220 0162	SLIDE, DOOR LOCK A
M38	614 220 0179	SLIDE, DOOR LOCK B
M39	614 220 0247	SLIDE, EJECT RELAY A
M40	614 220 0254	SLIDE, EJECT RELAY B
M41	614 220 1190	SPRING, TENS, EJ RELAY RESET
M42	614 220 0339	MAGNETIC COIL, CAM GEAR TRIGGER
M43	614 220 1626	ASSY,PCB,MECHA
M44	614 219 9770	SHIELD, HEAD PCB
M45	614 222 8968	PCB.P.MECHA HEAD LEAD RELAY
M46	614 222 8975	PCB,P.MECHA HEAD LEAD RELAY
M47	614 220 0148	LEVER.D.SLIDE LOCK
M48	614 220 1312	SPRING, WIRE, LOCK LEVER RESET
M49	614 232 5414	LEVER, HEAD SLIDE UP A
M50	614 220 0131	LEVER, HEAD SLIDE UP B
M51	614 220 1688	ASSY, SLIDE, HEAD
M52	614 220 1329	SPRING, WIRE, HEAD SLIDE RESET
M53	614 220 1183	SPRING, TENS, HEAD SLIDE CONT
M54	614 219 9763	GUIDE, TAPE
M55	614 220 1633	ASSY, BRACKET-E, HEAD LOCATE
M56	614 220 0292	HEAD, REC/PLAY
M57	614 220 0308	HEAD, PLAY
M58	614 220 4900	GEAR, HEAD ROTARY
M59	412 012 7609	SPECIAL WASHER, HEAD THRUST FIX
- 1	614 220 0063	LEVER, SECTOR
M60	614 220 1336	SPRING, WIRE, HEAD CLIC
- 1	011 220 1330	
M60	614 226 5543	SPRING,COMP,AZIMUTH COIL
M60 M61	614 226 5543	
M60 M61 M62 M63	614 226 5543 412 031 2005	SPECIAL SCREW, AZIMUTH BISS
M60 M61 M62 M63 M64	614 226 5543 412 031 2005 614 221 8235	SPECIAL SCREW.AZIMUTH BISS SPRING.WIRE.H.S.EARTH
M60 M61 M62 M63 M64 M65	614 226 5543 412 031 2005 614 221 8235 614 219 9992	SPECIAL SCREW,AZIMUTH BISS SPRING,WIRE,H.S.EARTH LEVER,R/F A
M60 M61 M62 M63 M64	614 226 5543 412 031 2005 614 221 8235	SPECIAL SCREW.AZIMUTH BISS SPRING.WIRE.H.S.EARTH

REF.NO.	PART NO.	DESCRIPTION			
M69	614 219 9879	GEAR, D. CAM			
M70	614 220 0049	LEVER, MAIN TRIGGER			
M71	614 220 0056	LEVER,SUB TRIGGER			
M72	614 223 8745	SLIDE, DRIVE			
M73	614 220 1299	SPRING, WIRE, D. SLIDE RESET			
M74	614 220 0186	SLIDE,A/B MECHA CHANGE			
M75	614 229 7506	SPRING, TENS, MECHA CH SLIDE			
M76	614 229 7513	SPRING.TENS.TRIGGER INNER FORCE			
M77	614 219 9718	ASSY.SLIDE.HEAD CH			
M78	614 220 1305	SPRING.WIRE,CH RESET			
M79	614 220 0209	SLIDE, REEL CH NO.1			
M80	614 219 9725	ASSY,SLIDE,REEL CH NO.2			
M81	614 220 0346	SWITCH, LEAF, PACK1, S003			
OR	614 220 0346	SWITCH, LEAF, PACK2, S004			
OR	614 220 0346	SWITCH, LEAF, CROM1, S005			
OR	614 220 0346	SWITCH, LEAF, CROM2, SOO6			
OR	614 220 0346	SWITCH, LEAF, URFWD, S007			
OR	614 220 0346	SWITCH, LEAF, URREV, S008			
M82	614 225 6916	CUSHION, RUBBER, SILEN			
M83	614 226 6854	CUSHION,RF LEVER TOUTCH			
M84	614 229 1313	CUSHION,RUBBER,DRIVE SLIDE WIRE			
M85	614 228 5053	CUSHION, RUBBER, H.S. STOPPER			

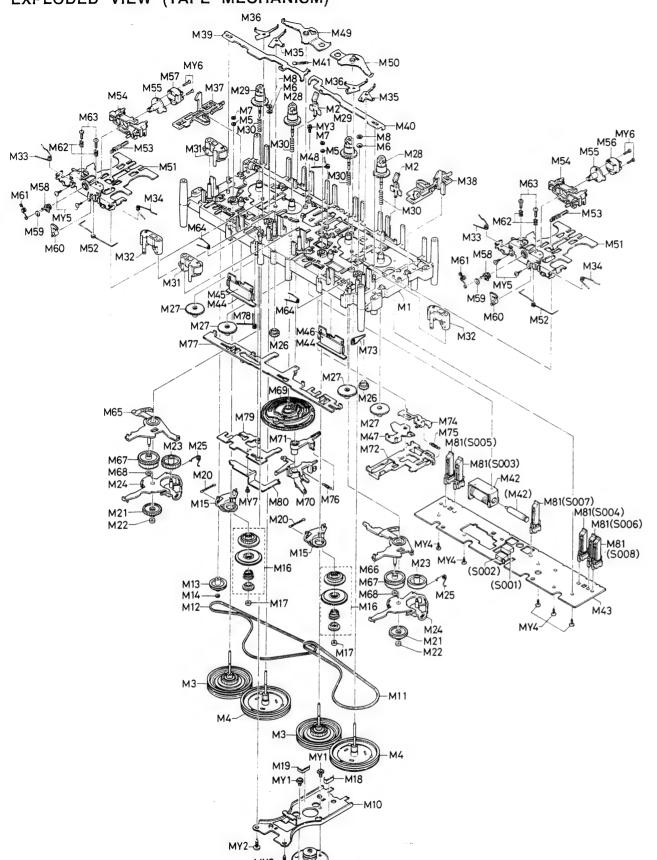
FIXING PARTS(TAPE DECK MECHANISM)

REF.NO.	PART NO.	DESCRIPTION
MY1 MY2 MY3 MY4 MY5 MY6 MY7	411 102 6300 411 021 6405 411 044 7205 411 021 0809 411 022 7807 411 124 9204 411 018 6401	SCR PAN-FLG 2.6X2.8.MOTOR FIX SCR S-TPG BIN 3X8.B-MOTOR FIX SCR PAN+SW 2X4.SOLENOID FIX SCR S-TPG BIN 2X6 SCR S-TPG PAN 2X6.TAPE GUIDE FIX SCR PAN PCS 1.6X6.HEAD FIX SCR PAN PCS 2X2.REEL CH SLIDE NO.2 ASSY

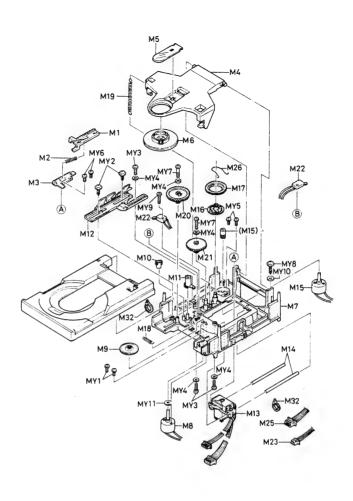
TAPE MECHANISM P.C.BOARD ASSY

43 614 220 1626 ASSY,PCB,MECHANISM M43 CN001 614 017 3871 PLUG,8P,TAPE A CN002 614 235 3646 PLUG,8P,TAPE B CN003 614 035 4935 SOCKET,4P,TO MOTOR D001 407 004 9105 DIODE DSF10C OR 407 012 3300 DIODE 1SR35-200A D002 407 007 9904 DIODE GMA01 OR 407 012 4406 DIODE 1SS133 D003 407 053 6308 ZENER DIODE MTZ5.1B OR 407 051 6706 ZENER DIODE GZS5.1Y ICP001 614 205 2884 IC PROTECTOR ICP-N10 PH001 407 131 9900 PH010 COUPLE SPI-335-34-C PH002 407 131 9900 PH010 COUPLE SPI-335-34-C Q001 ★405 099 0908 TR 2SB621-S Q002 405 006 1905 TR 2SA933S OR 405 002 1107 TR 2SA1048-GR Q003 ★405 099 0908 TR 2SB621-S S001 614 224 2575 SWITCH, LEVER, PLAY S002 614 224 2575 SWITCH, LEVER, STOP	REF.NO.	PART NO.	DESCRIPTION
OR	CN001 CN002 CN003 D001 OR D002 OR	614 017 3871 614 235 3646 614 035 4935 407 004 9105 407 012 3300 407 007 9904 407 012 4406	PLUG.8P.TAPE A PLUG.8P.TAPE B SOCKET.4P.TO MOTOR DIODE DSF10C DIODE 1SR35-200A DIODE GMA01 DIODE 1SS133
300001 014 003 0170 35H1-F1XED V.N.20N(B)	OR ICP001 PH001 PH002 Q001 Q002 OR Q003 S001	407 051 6706 614 205 2884 407 131 9900 407 131 9900 ∆405 099 0908 405 006 1905 405 002 1107 ∆405 099 0908 614 224 2575	ZENER DIODE GZS5.1Y IC PROTECTOR ICP-N10 PHOTO COUPLE SPI-335-34-C PHOTO COUPLE SPI-335-34-C IR 2SB621-S IR 2SA933S IR 2SA1048-GR IR 2SB621-S SWITCH, LEVER, PLAY

EXPLODED VIEW (TAPE MECHANISM) -



EXPLODED VIEW & PARTS LIST (CD MECHANISM) -



REF.NO.	PART NO.	DESCRIPTION
M3	614 216 9759	GEAR, P.U RACK LOWER
M4	614 216 9858	LEVER, CHUCK
M5	614 211 6654	SPRING PLATE, CHUCK
M6	614 219 0104	ASSY, PULLEY, CHUCK
M7	614 216 9728	CHASSIS.CD MECHA
M8	614 045 2105	COMMUTATE MOTOR, SPINDLE
M9	614 216 9841	TURN TABLE
M10	614 216 9742	GEAR, CHANGE SLIDE
M11	614 216 9810	GEAR, CHANGE RACK
M12	614 216 9865	SLIDE, DRIVING
M13	∆ 614 227 9069	PICKUP,LASER
M14	614 230 0411	SHAFT, PICK UP GUIDE
OR	614 145 9622	SHAFT, PICK UP GUIDE
M15	614 217 7068	COMMUTATE MOTOR ASSY, SLED
M16	614 216 9797	GEAR.CLUTCH INNER
M17	614 216 9780	GEAR,CLUTCH OUTER
M18	614 216 9889	SPRING, TENS, SLIDE BACK
M19	614 223 2217	SPRING, TENS, CHUCK LEVER BACK
M20	614 216 9773	GEAR, TRAY SLED
M21	614 216 9803	GEAR,P.U SLED
M22	614 018 9223	SWITCH, LOAD OUT & LIMIT
M23	614 224 3138	ASSY, CONNECTOR-S, 3P, SWITCH LEAD
M25	614 224 3145	ASSY, CONNECTOR-S, 4P, SWITCH LEAD
M26	614 216 9902	SPRING, WIRE, CLUTCH
M32	614 129 4971	FIXER, LEAD FIX

FIXING PARTS(CD MECHANISM)

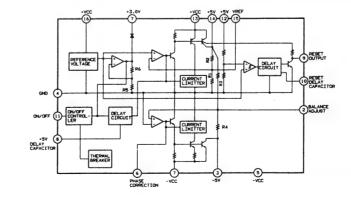
PART NO.	DESCRIPTION
411 044 7205	SCR PAN+SW 2X4
411 020 9902	SCR S-TPG BRZ+FLG 3X8
411 022 8408	SCR S-TPG PAN 2X8
411 087 4704	WASHER V 2X6X0.4
411 044 7205	SCR PAN+SW 2X4
411 044 7502	SCR PAN+SW 2X5
411 119 8908	SCR S-TPG PAN 2X14
411 020 9100	SCR S-TPG BRZ+FLG 3X12,LEVER FIX
411 104 4205	SCR TPG PAN PCS 1.7X8
411 092 2900	WASHER Z 3X10X1
412 032 0208	SPECIAL WASHER,ADHESIVE ESCAPE STOP
	411 044 7205 411 020 9902 411 022 8408 411 087 4704 411 044 7205 411 044 7502 411 119 8908 411 020 9100 411 104 4205 411 092 2900

CD MECHANISM(PM-DAD S6N/SP)

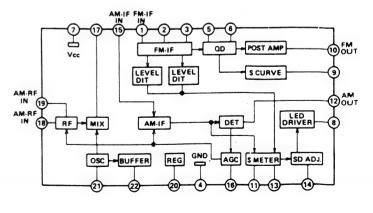
OD TIEOTHINI	ZOTICI II DIID COTI OT	
REF.NO.	PART NO.	DESCRIPTION
M1	614 216 9766	GEAR, P.U RACK UPPER
M2	614 216 9896	SPRING, COMP, RACK BACK

IC BLOCK DIAGRAM-

IC107 M5294P (5-Terminal Voltage Regulator with System-Reset & Muting)



IC201 LA1265S (AM-RF & FM-AM-IF System)

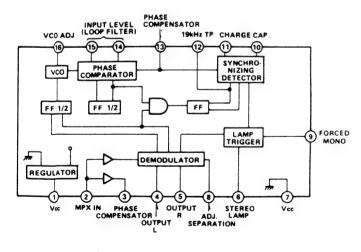


IC BLOCK DIAGRAM-

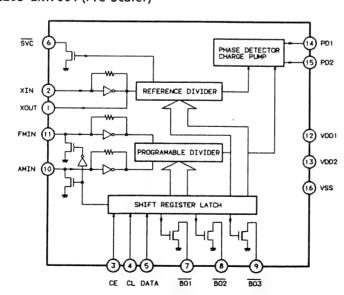
IC104 Pin Function of LC7866E (Digital Signal Processor & Servo Control)

No	Pin Name	1/0	Description	No	Pin Name	1/0	Description
1	TEST1	1	For TEST. Normal time is non connection.	31	SMP2	0	Output of signal to DAC, Signal of Latch & L/R select, Signal
2	AO	0		32	SMP1	0	for Sampling Hold
3	AI		Input from VCO output in LA9210 (8.6436MHz)	33	LRCLK	0	Output of signal to DAC, Signal of Latch & L/R select, Signal
4	PDO	0	Phase comparison output of VCO and EFM signal.	34	SMP	0	for Sampling Hold
5	VSS		GND	3.5			Output of signal to DAC, Signal of Latch & L/R select, Signal
6	EFMO	0	Negative output through amplitude limiter. Antiphase of	35	DFOUT	0	for Sampling Hold
L°	EFIVIO	0	EFMO. This signal use SLICE LEVEL CONTROL.	26		T .	Output of signal to DAC, Signal of Latch & L/R select, Signal
7	EFMO	0	Positive output through amplitude limiter. Antiphase of EFMO.	36	DACLK	0	for Sampling Hold
Ľ	EFIVIO	0	This signal use SLICE LEVEL CONTROL.	37	TESTB	0	For TEST. Normal time is non connection.
8	EFMIN		Inputting HF signal of 1~2Vp.p. This signal use SLICE LEVEL	38	TESTC	0	For TEST. Normal time is non connection.
L°	ELIMIN	<u> </u>	CONTROL.	39	CK2	0	For output of signal that Comply with CD-ROM
9	TEST2	1	For TEST. Normal time is non connection.	40	ROMOUT	0	For output of signal that Comply with CD-ROM
10	CLV +	0	Output for DISC MOTOR CONTROL.	41	C2FLCK	0	For output of signal that Comply with CD-ROM
11	CLV-	0	Output for DISC MOTOR CONTROL.	42	C2F	0	For output of signal that Comply with CD-ROM
12	V/P	0	CLV rough Servo time : Output "H"	43	DOUT	0	Output of DIGITAL OUT
12	V/P	U	Phase control time : Output"L"	44	SBSY	0	Synchronizing signal of sub-code block.
13	FOCS	0	Output "H": Lens pull up with slowly than stop the Focus	45	EFLG	0	For correction monitor of C1, C2, single, double.
14	FST	0	Servo. If FZD generate, it reset output of FOCS. For lead-in of	46	PW	0	SFSY is Synchronizing signal of sub-code & frame. Clock of
15	FZD	1	Focus	47	SFSY	0	eighth send to SBCK then read out the sub-code of P, Q, R, S,
16	HFL		Comply with command of track jump, it oscillate kick Pulse,	48	SBCK	ı	T, U, V, & W.
16	HFL	'	JP + & JP*. It jump the prescribed number of track (1,4,16,64).	49	FSX	0	Output of Synchronizing signal (7.35KHz)
17	TES	١. ١	Comply with command of track jump, it oscillate kick Pulse,	50	WRQ	0	
	163	<u>'</u>	JP * & JP*. It jump the prescribed number of track (1,4,16,64).	51	RWC	1	Data sub-code Q pass the CRC check then WRQ do "H". It
18	PCK	0	PCK Monitor (4.3218MHz)	52	SQOUT	0	detect at external, Data read out from SQOUT by send the
19	FSEQ	0	SYNC (FS of truth) detected from EFM signal = SYNC of	53	COIN	1	CQCK. RWC set the "H" by Micro Processor then it let
13	racy	L	counter: "H" (Latch Output during in 1 frame)	54	CQCK	1	command by send with Synchronizing CQCK command data.
20	TOFF	0	Comply with command of trade isome it positions high Bules	55	RES	-	Turn on the Power Supply time : Once "L"
21	TGL	0	Comply with command of track jump, it oscillate kick Pulse, JP * & JP *. It jump the prescribed number of track (1.4.16.64).	56	M/L	1	Data of SQOUT want at the LBS first time : M/L set the "L".
22	THLD	0	3 P & 3 P . It jump the prescribed number of track (1,4,16,64).	57	LASER	0	This output can control at Serial Control from Micro Processor
23	TEST3	1	For TEST. Normal time is non connection.	58	16M	0	16M Output (16.9344MHz)
24	VDD		+5V	59	4M	0	4M Output (4.2336MHz)
25	JP+	0	Comply with command of track jump, it oscillate kick Pulse,	60	CONT	0	This output can control at Serial Control from Micro Processor
26	JP*	0	JP * & JP*. It jump the prescribed number of track (1,4,16,64).	61	TEST5	1	For TEST. Normal time is non connection.
27	DEMO	1	For adjustment of production process. Sound on function.	62			Chip select Terminal. This terminal "L": LC7866 is active
28	TEST4	1	For TEST. Normal time is non connection.	02	CS	1	(Internal Resistor : Pull Down)
29	EMPH	0	Output is "H" time, it need de-emphasis	63	XIN	1	Connection Terminal of crystal oscillation (16.9344MHz)
30	TESTA	1	For TEST. Normal time is "H".	64	XOUT	0	Connection Terminal of crystal oscillation (16.9344MHz)

IC202 LA3361 (PLL FM MPX. Stereo Demodulator)



IC203 LM7001 (Pre-Scaler)



IC BLOCK DIAGRAM-

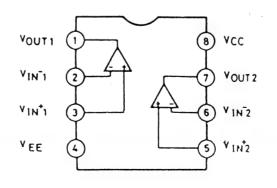
IC105 Pin Function of LC97000-288 (D/A Converter)

No	Pin Name	1/0	Description	No	Pin Name	1/0	Description		
1	L-CH	0	DAC CH-1 Output pin.	15	EMPH1	1	De-emphasis set pin.		
2	VRH	R	Reference voltage "H" input pin.	16	D/N	1	Normal/Double speed switch pin.		
3	AVDD	Р	Analog system power supply pin.	17	SOC2	1	Input source select pin.		
4	DVDD	Р	Digital system power supply pin.	18	SOC1	1	Input source select pin.		
5	BCLK	-	Bit clock pin.	19	MODE	ı	Operation set pin.		
6	DATA	- 1	Digital audio data input pin. Input in bit serial from MSB.	20	TEST	ı	Test pin (Normally "L").		
7	LRCK	1	LR Clock input pin. LRCK = "H" CH1 LRCK = "L" CH2	21	TEST	1	Test pin (Normally "L").		
8	TEST	1	Test pin (Normally "L").	22	DGND	Р	Digital system ground pin.		
9	ATT	1	Attenuation data input pin. Input in bit serial from LSB.				Clock output pin At 392Fs : 1/2 XOUT		
10	SHIFT	1	Attenuation data shift clock input pin.	23	CLKOUT	0	At 384Fs, 448Fs, 512Fs : 1/4 XOUT		
11	LATCH	1	Attenuation data latch clock input pin.	24	XIN	ı	Crystal oscillation input pin.		
12	INITB.	1	Initializing signal input pin (Normally "H").	25	XOUT	0	Crystal oscillation output pin.		
13	TEST	1	Test pin (Normally "L").	26	AGND	Р	Analog system ground pin.		
14	EMPH2	1	De-emphasis set pin.	27	VRL	R	Reference voltage "L" input pin.		
				28	R-CH	0	DAC CH-2 Output pin.		

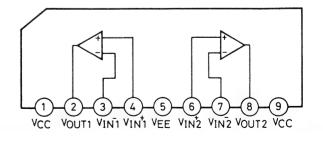
IC108 Pin Function of CXP5046H-259 (Micro Processor)

No	Pin Name	1/0	Description	No	Pin Name	1/0	Description
1	IR(INT)	1	Remocon signal	33	LDON	0	Laser ON / OFF signal
2	IR	1	Remocon signal	34	CLOSE	0	Tray action motor (SLED MOTOR) signal
3	REC SW	1	REC (TAPE DECK) signal (ON / OFF) DUB IN	35	OPEN	0	Tray action motor (SLED MOTOR) signal
4	DIR SW	1	Tape Direction (TAPE DECK) signal (A / B)	36	XTAL	0	Clock oscillation signal
5	SYNC	0	Synchronous REC signal (Auto Function output)	37	EXTAL	1	Clock oscillation signal
6	NC		Non used	38	RST	1	Reset signal
7	NC		Non used	39	CQCK	0	Clock signal to LC7866E
8	NC		Non used	40	COIN	0	Command data signal to LC7866E
9	NC		Non used	41	NC		Non used
10	SCAN0	0	Scan signal for key & display	42	SQOUT	1	SUBQ data signal from LC6866E
11	SCAN1	0	Scan signal for key & display	43	RWC	0	RWC signal to LC7866E
12	SCAN2	0	Scan signal for key & display	44	NC		Non used
13	SCAN3	0	Scan signal for key & display	45	WRQ	1	WRQ signal from LC7866E
14	KEY0	ı	Key signal	46	DRF	ı	DRF signal from LA9210M
15	KEY1	- 1	Key signal	47	NC		Non used
16	KEY2	- 1	Key signal	48	CMOPN	1	Open switch signal (ON / OFF)
17	KEY3	1	Key signal	49	LIMIT	1	Pick-up Limit switch signal (ON / OFF)
18	SEGF	0	Segment signal for LED display	50	NC		Non used
19	SEGA	0	Segment signal for LED display	51	NC		Non used
20	SEGB	0	Segment signal for LED display	52	NC		Non used
21	SEGG	0	Segment signal for LED display	53	NC		Non used
22	SEGH	0	Segment signal for LED display	54	NC		Non used
23	SEGC	0	Segment signal for LED display	55	NC		Non used
24	SEGD	0	Segment signal for LED display	56	SL OP	0	Tray action motor (SLED MOTOR) signal
25	SEGE	0	Segment signal for LED display	57	SL O	0	Tray action motor (SLED MOTOR) signal
26	NC		Non used	58	NC		Non used
27	NC		Non used	59	SL C	0	Tray action motor (SLED MOTOR) signal
28	NC		Non used	60	NC		Non used
29	NC		Non used	61	NC		Non used
30	CLV G	0	Select signal of CLV gain	62	NC		Non used
31	NC		Non used	63	NC		Non used
32	VSS		GND	64	Vdd		Power supply (+5V)

IC701 · 703 LA6458S (Dual Operational Amplifier)



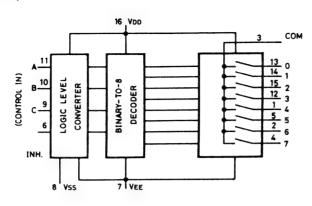
IC751 LA6458D (Dual Operational Amplifier)



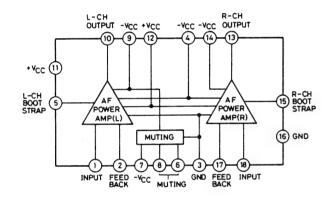
IC BLOCK DIAGRAM

IC702 · 802 BU4051B (8-Channel Multiplexer / De-Multiplexer)

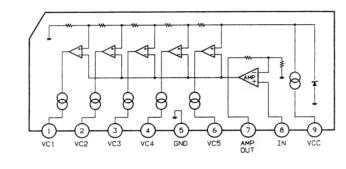
CONTR	OL II	NPU1	S	"0	N" CHANNE	EL			
INHIBIT	C△	В	A	TC40518P	TC40518PTC40528PTC405				
ι	L	L	L	0	0X.0Y	0X.0Y.0Z			
L	L	L	Н	1	1 X . OY	1X.0Y.0Z			
L	L	Н	L	2	2X. 2Y	0X.1Y.0Z			
L	L	Н	Н	3	3X.3Y	1X,1Y.0Z			
L	Н	L	L	4	-	0X.0Y.1Z			
L	Н	L	Н	5		1X.0Y.1Z			
L	Н	Н	L	6	_	0X.1Y.1Z			
Ĺ	Н	Н	Н	7		1X,1Y,1Z			
Н	<u>*</u>	*	*	NONE	NONE	NONE .			



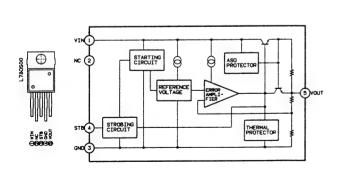
IC751 STK4132MK-2 (Power Amplifier)



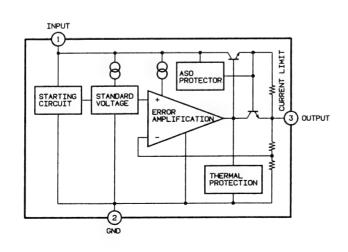
IC902 LB1433N (LED Level Meter Driver)



IC951 L78OS12 (5-Terminal Voltage Regulator)

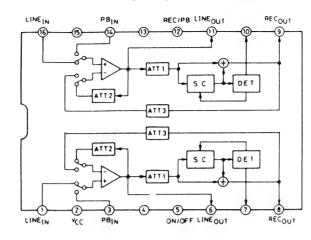


IC952 L7812F (3-Terminal Voltage Regulator)



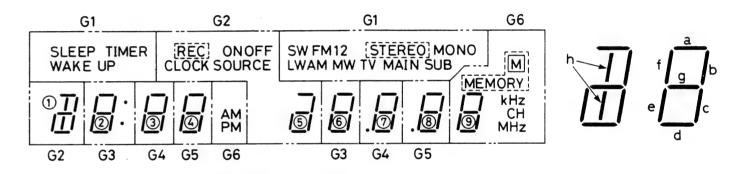
IC BLOCK DIAGRAM-

IC351 CXA1101P (Dolby B-Type Noise Reduction)



DISPLAY (LCD) PIN DESCRIPTION-

FL500 (Tuner Flurecent Display)



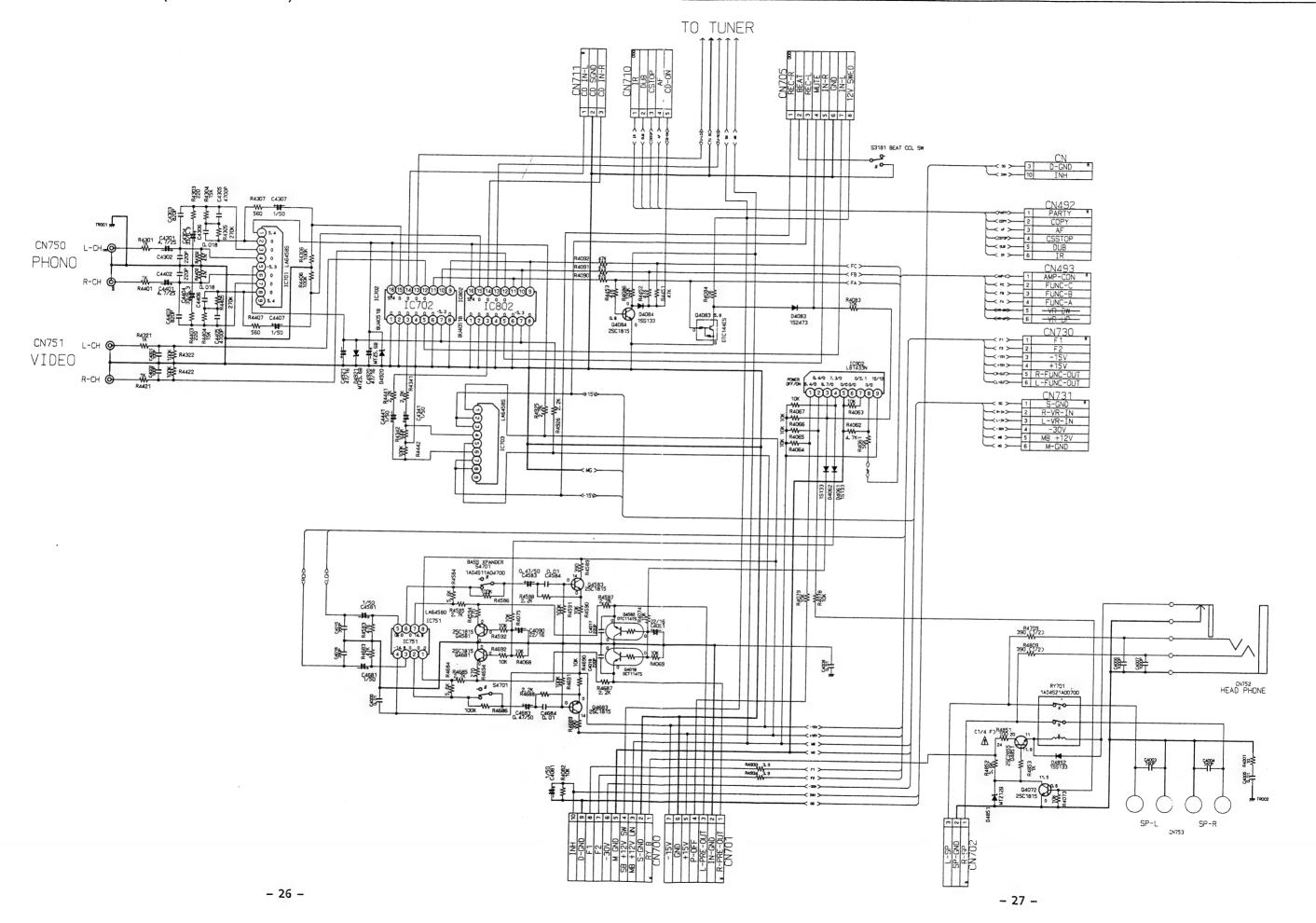
[]]:Red, ather Blue-green

Segment Map

_		•													
	\$1	\$2	\$3	S4	\$5	\$6	\$7	\$8	\$9	S10	S11	\$12	\$13	\$14	S15
G1	AM	SUB	MW	TV	SW	FM	1	2	MAIN	LW	STEREO	MONO	TIMER	SLEEP	WAKEUP
G2	OFF	ON	REC	SOURCE	CLOCK	⑤b	Sadeg	©с	①a	①b	①h	①g	①e	①c	①d
G3	(6) а	©b	©f	©g	(6)e	©c	©d	:	②a	⊘ b	Øf	Ø g	②e	② c	⊘ d
G4	Øа	ØЬ	⑦f	Øд	⊘ e	⑦ c	⑦d		③a	3b	③f	Эg	③e	③c	③d
G5	® а	®b	® f	®g	®е	® с	®d		⊕a	⊕b	⊕ f	⊕ g	Ф е	④ c	⊕ d
G6	® а	9b	9 f	9 g	9e	9 с	9 d	MEMORY		M	AM	PM	kHz	СН	MHz

Pin Assignment

PIN No.	1	2	3	4	5	6	7	8	9	10	11	12	13	
Segment Name	F	G6	G5	G4	G3	G2	G1	\$15	S14	513	S12	S11	S10	
	14	15	16	17	18	19	20	21	22	23	24	25		
	59	NC	NC	S1	52	S3	54	S 5	56	57	S8	F		



(Unit : Volt)

Fluc : Fluctuation

IC101	LA9210M	

Measuring Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stop Mode	0	-5.0	0	0	0	0	0	0	0	2.59	2.54	2.55	0	0	0	0
Play Mode	0	-5.0	Fluc	Fluc	Fluc	Fluc	Fluc	0	0	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc
Measuring Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	- 32
Stop Mode	0	0	0	0	Fluc	Fluc	0	0	0	0	Fluc	2.43	0	0	0	-5.0
Play Mode	Fluc	0	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	-5.0							
Measuring Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Stop Mode	0	0	0	5.0	4.39	0	0	0	0	0	0	0	4.97	4.92	4.07	4.07
Play Mode	Fluc	Fluc	Fluc	5.0	Fluc	Fluc	Fluc	Fluc	0	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc
Measuring Pin No.	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Stop Mode	4.07	0	0	0	2.52	2.49	2.50	5.0	2.51	2.51	2.54	3.92	2.60	2.33	4.92	0
Play Mode	Fluc	5.0	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	0						
Measuring Pin No.	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Stop Mode	0	0.4	-0.4	0	-0.5	-0.5	0	-0.5	0	4.82	-4.97	4.83	5.0	0	0	0
Play Mode		Fluc	Fluc	Fluc	Fluc	Fluc		Fluc	Fluc	Fluc	Fluc	Fluc	50	Fluc	Fluc	1

IC102 LC6510

Measuring Pin No.	1	2	3	4	5	6	7	8	9	10
Stop Mode	Fluc	Fluc	Fluc	Fluc	-9.65	Fluc	Fluc	Fluc	Fluc	8.60
Play Mode	Fluc	Fluc	Fluc	Fluc	-9.65	Fluc	Fluc	Fluc	Fluc	8.60

IC103 LC6510

Measuring Pin No.	1	2	3	4	-5	6	7	8	9	10
Stop Mode	0	0	0	0	-9.65	0	Fluc	Fluc	Fluc	8.60
Play Mode	Fluc	Fluc	0	0	-9.65	0	Fluc	Fluc	Fluc	8.60

IC104 LC7866E

Measuring Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stop Mode	0	2.31	2.34	2.51	0	2.46	2.48	2.52	0	0	0	4.92	0	2.51	4.07	4.07
Play Mode	Fluc	Fluc	Fluc	Fluc	0	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc	Fluc
Measuring Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Stop Mode	4.07	2.5	0	4.95	4.97	0	0	5.0	0	0	0	0	0	5.0	1.25	1.25
Play Mode	Fluc	5.0	Fluc	Fluc	Fluc	Fluc	Fluc	5.0	Fluc	Fluc						
Measuring Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Stop Mode	2.5	2.5	0	2.5	0	2.5	2.41	1.63	2.5	4.5	2.52	Fluc	2.28	0	2.5	0
Play Mode	Fluc	0(4.5)	Fluc													
Measuring Pin No.	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Stop Mode	2.5	Fluc	Fluc	Fluc	0	5.0	4.48	0	4.92	Fluc	2.33	4.93	0	0	2.28	2.47
Play Mode	Fluc	Fluc	Fluc	Fluc	0	5.0	Fluc	0	Fluc	Fluc	Fluc	Fluc	Fluc	0	Fluc	Fluc

IC105 LC97000P-288

Measuring Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stop Mode	2.06	4.02	5.0	5.0	2.5	0	2.5	0	0	0	0	4.93	0	0	0	0
Play Mode	Fluc	Fluc	Fluc	5.0	5.0	Fluc	Fluc	0	0	0	0	Fluc	0	0	Fluc	0
Measuring Pin No.	17	18	19	20	21	22	23	24	25	26	27	28				
Stop Mode	0	0	0	0	0	0	2.19	0.95	2.79	0	0	0	L	l	l	1
Play Mode	0	0	Γ-ō	F - 0	Γ	Γ- -	Fluc	Fluc	Fluc	0	0	Fluc		1	1	

IC106 XRA15218F

Measuring Pin No.	1	2	3	4	5	6	7	8	l
Stop Mode	2.05	2.05	0	-5.0	2.06	2.06	2.06	5.0	
Play Mode	Fluc	Fluc	Fluc	-5.0	Fluc	Fluc	Fluc	5.0	l

IC107 M5294P

[Measuring Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Ì	Stop Mode	-9.65	0	-5.0	0	-9.65	-7.84	3.41	1.04	5.0	1.06	0.59	5.0	8.60	5.0	1.24	8.60
	Play Mode	-9.65	Fluc	-5.0	0	-9.65	Fluc	Fluc	Fluc	5.0	Fluc	Fluc	5.0	8.60	5.0	Fluc	8.60

IC108 CXP5046-259

Measuring Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Stop Mode	5.0	5.0	0	5.0	5.0	5.0	5.0	5.0	5.0	Fluc	Fluc	Fluc	5.0	5.0	5.0	5.0
Play Mode	5.0	5.0	0	5.0	5.0	5.0	5.0	5.0	5.0	Fluc	Fluc	Fluc	5.0	5.0	5.0	5.0
Measuring Pin No.	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Stop Mode	5.0	5.0	5.0	Fluc	5.0	Fluc	Fluc	5.0	5.0	0	0	0	0 .	0	. 0	0
Play Mode	5.0	5.0	5.0	Fluc	5.0	Fluc	Fluc	5.0	5.0	0	0	0	0	0	0	0
Measuring Pin No.	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Stop Mode	5.0	0	5.0	Fluc	Fluc	5.0	5.0	0	0	Fluc	Fluc	5.0	Fluc	4.2	5.0	5.0
Play Mode		5.0	0	Fluc	Fluc	5.0	5.0	0	0	Fluc	Fluc	5.0	Fluc	4.2	5.0	5.0
Measuring Pin No.	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Stop Mode	5.0	5.0		5.0	5.0	5.0	5.0	0	0	0	0	0	0	0	0	0
Play Mode	5.0	5.0		5.0	5.0	5.0	5.0	0	0	0	0	0	0	0	0	0

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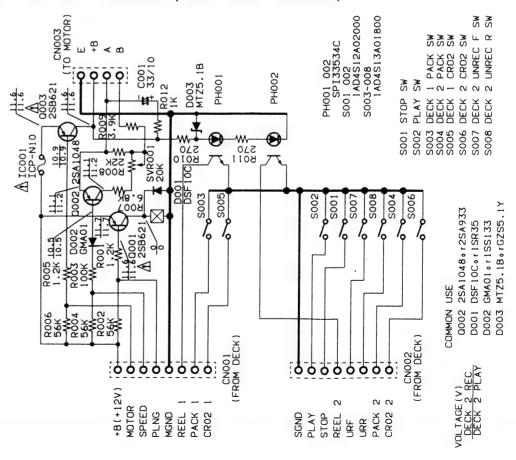
Pin 35 : Close Pin 36 : Open VOLTAGES OF TRANSISTOR (CD) -

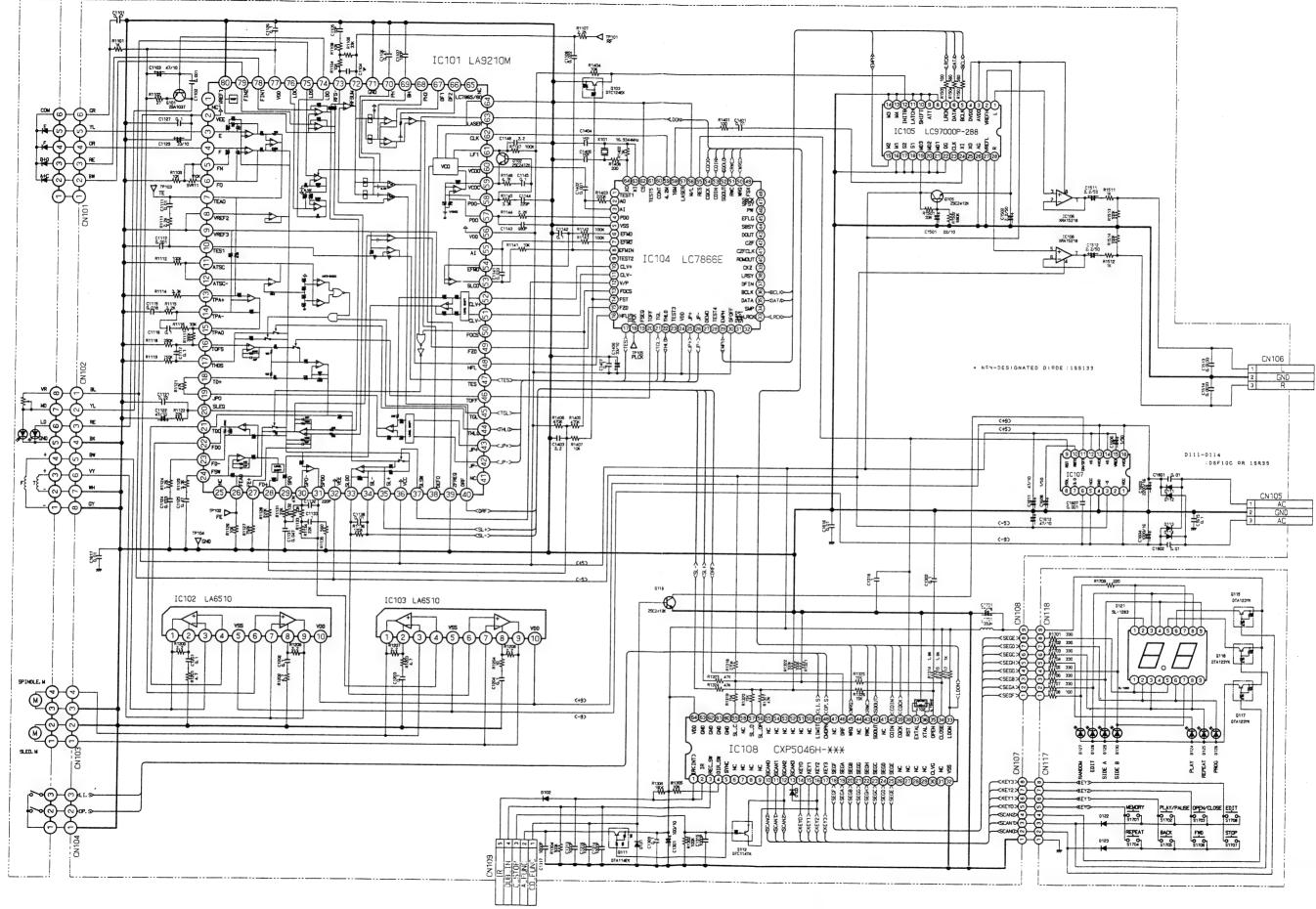
TRANSISTOR

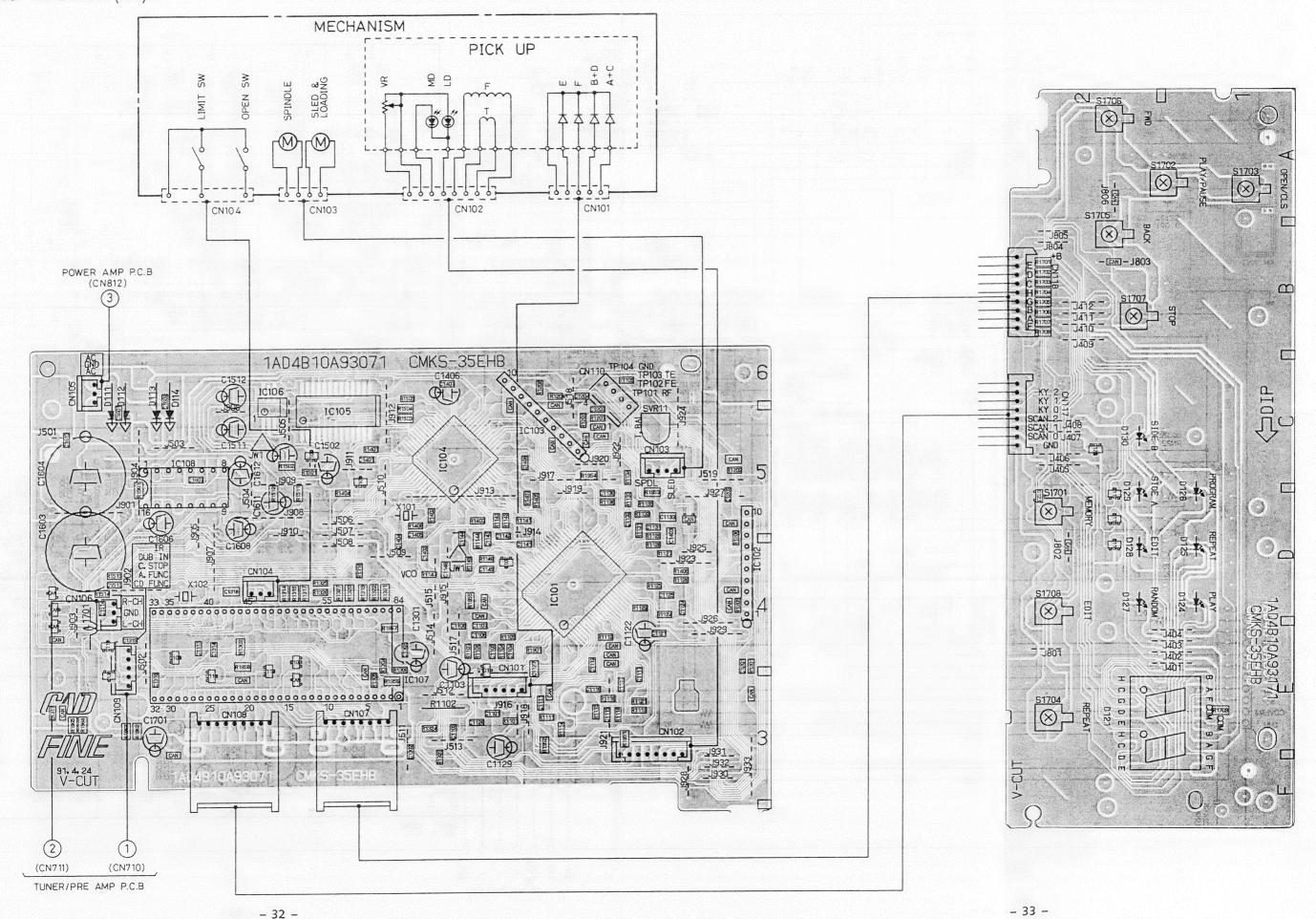
((Unit :	Volt)
Q105		

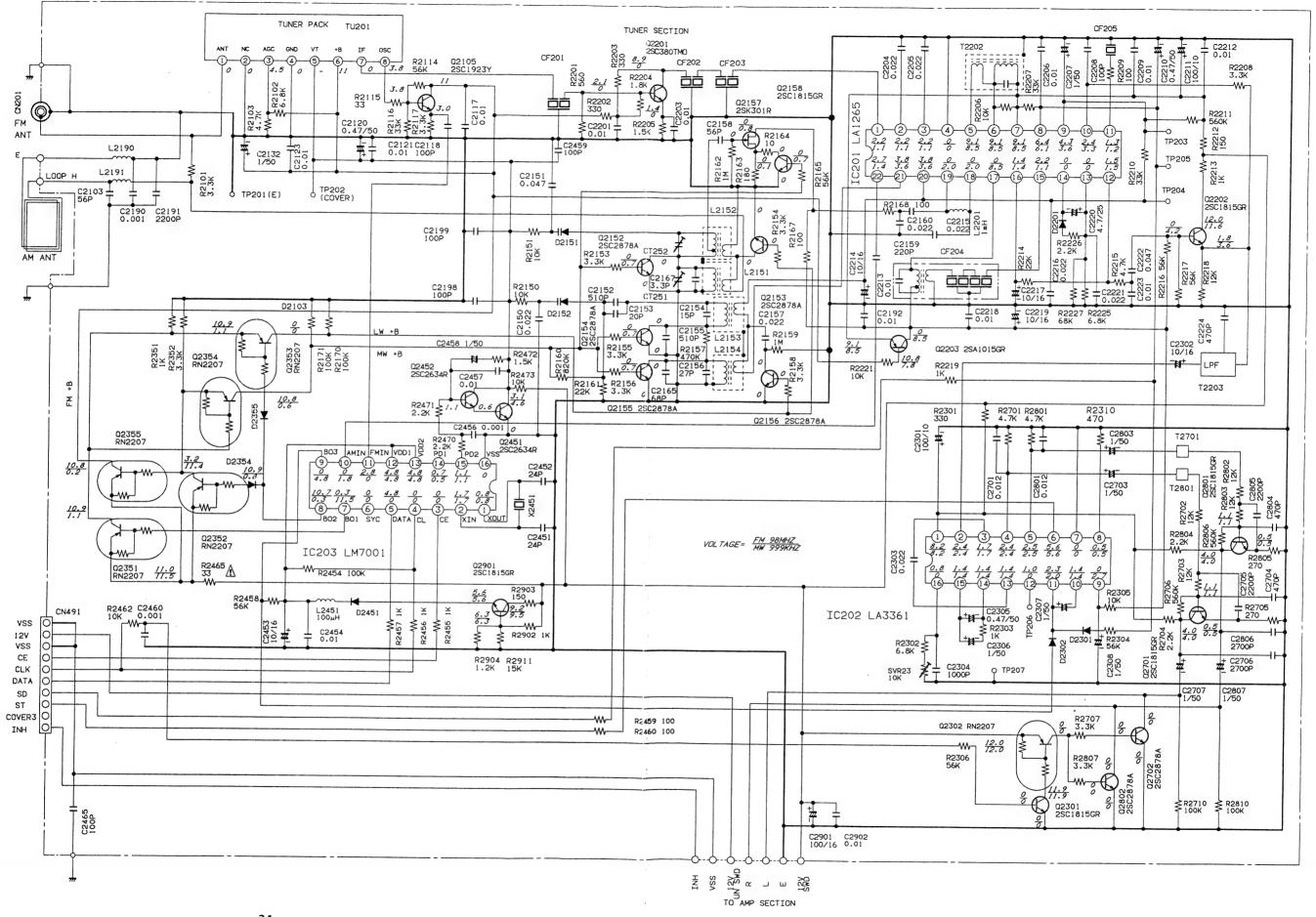
Transistor No.	Q101			Q102			Q103			Q105		
Measuring Pin Name	E	с	В	E	с	В	E	с	В	E	С	В
Stop Mode	4.97	0	4.82	2.54	2.60	2.51	0	5.0	0	4.02	5.0	4.6
Play Mode	4.0	1.0	4.0	Fluc	Fluc	Fluc	0	5.0	0	4.02	5.0	4.6
Transistor No.	Q111			Q112			Q118					
Measuring Pin Name	E	с	В	E	с	В	E	с	В			
Stop Mode	5.0	0	5.0	Fluc	5.0	0	0	О	o			
Play Mode	5.0	5.0	0	Fluc	5.0	0	0	0	0			

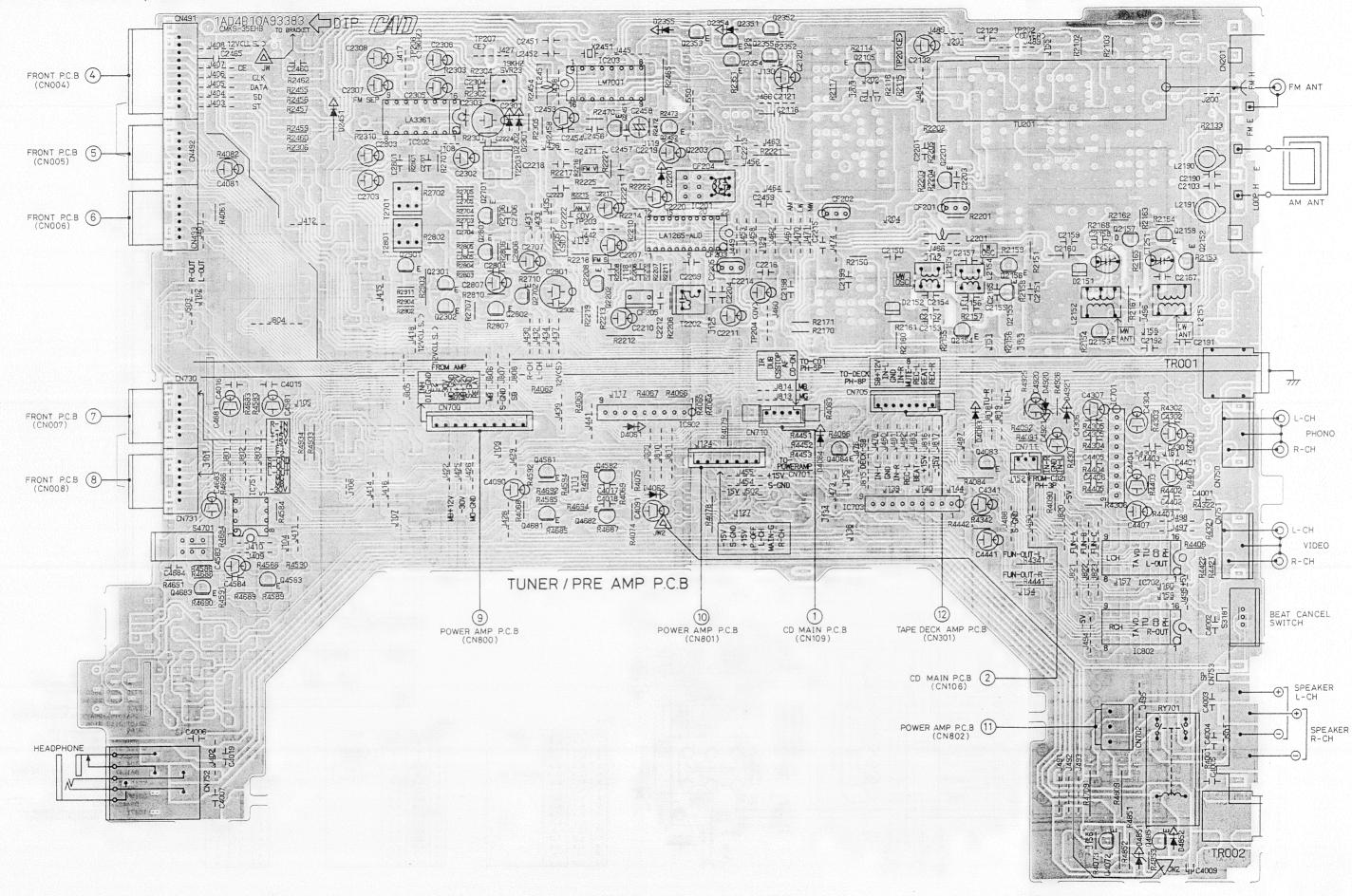
SCHEMATIC DIAGRAM (TAPE MECHANISM)

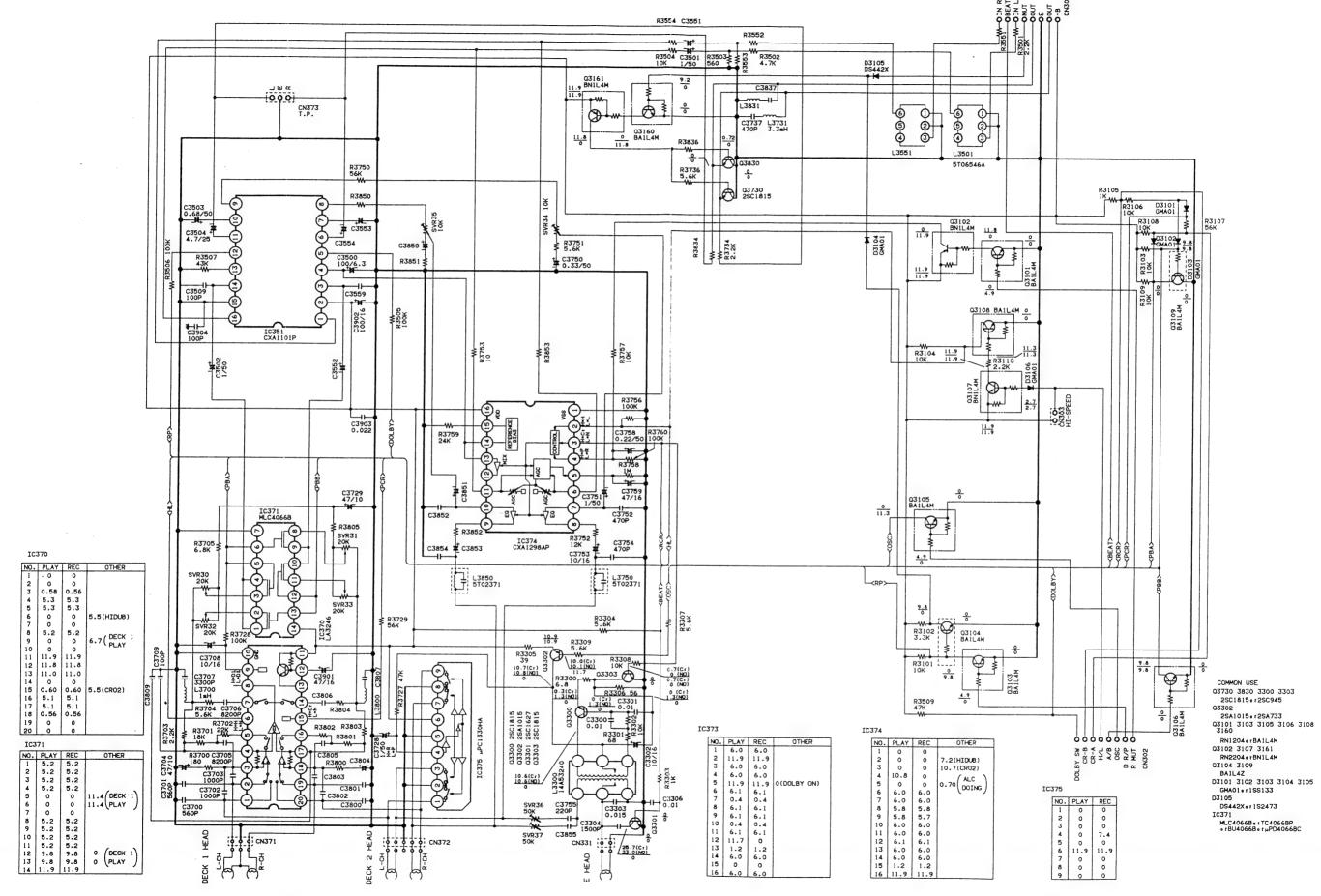


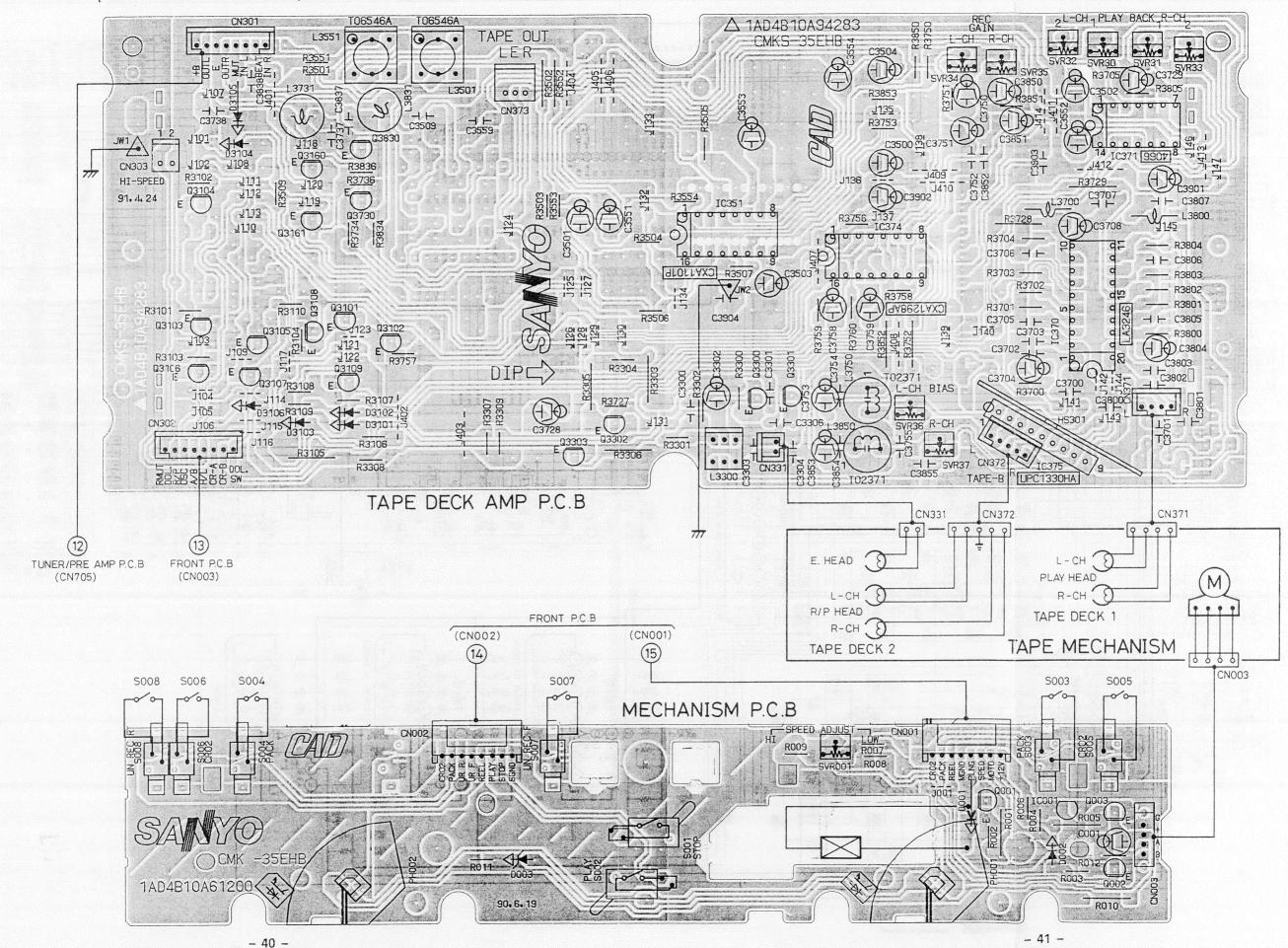




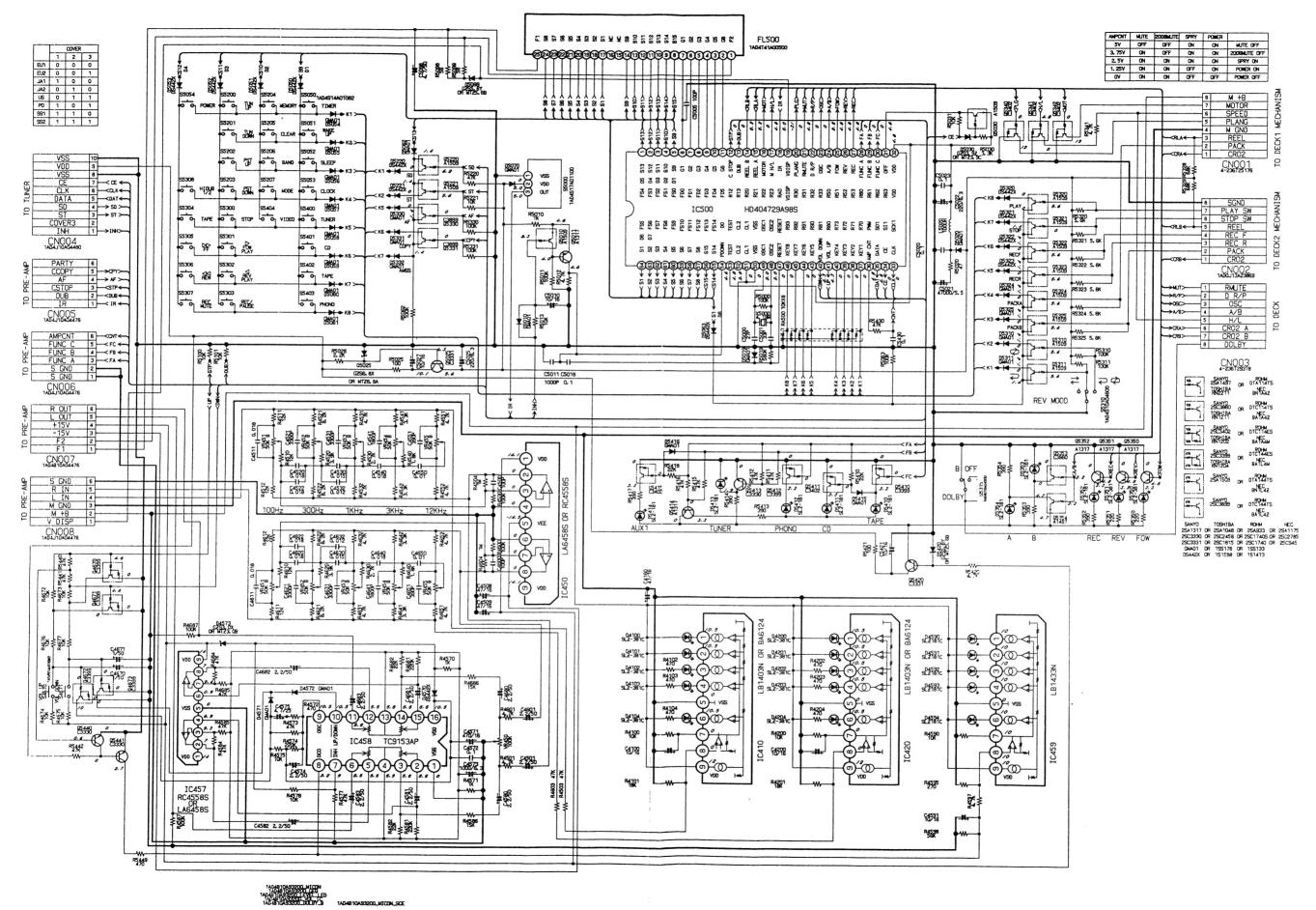




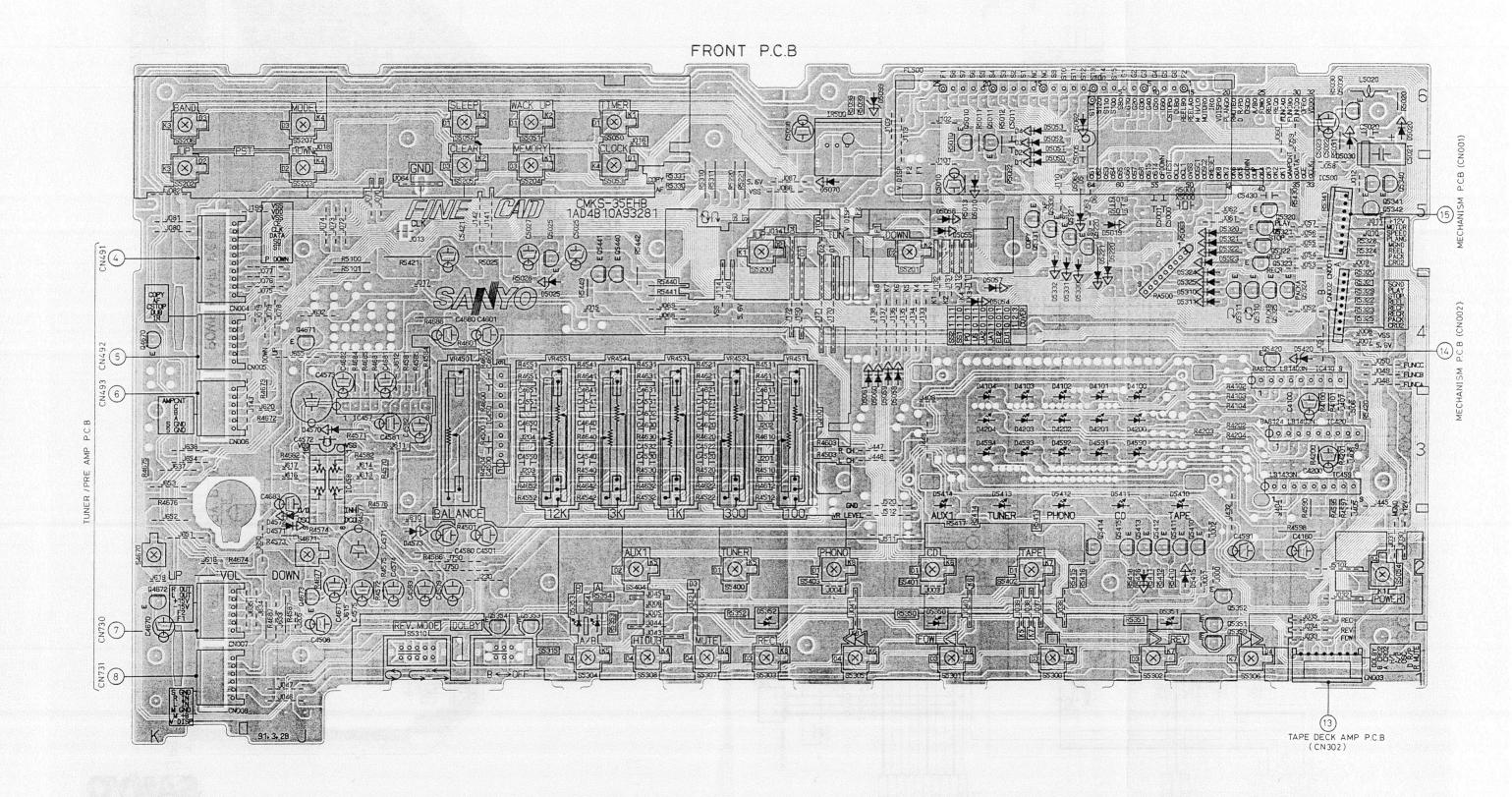




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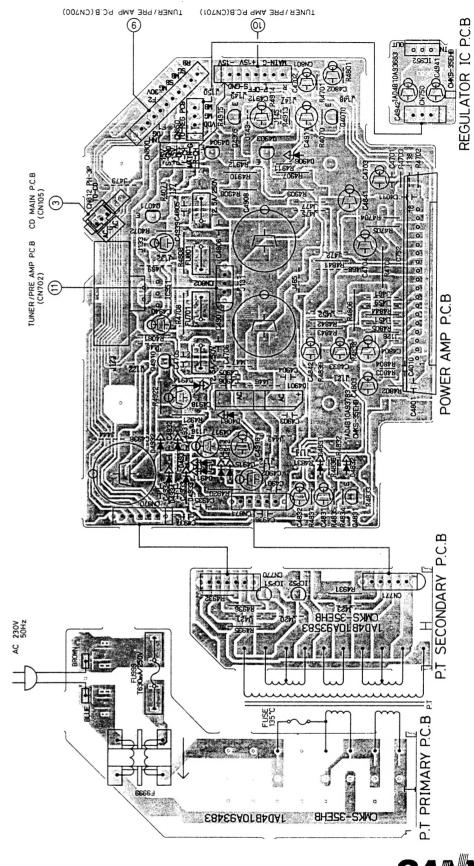


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WIRING DIAGRAM (POWER AMPLIFIER)



SANYO

May/'91/500 NS

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